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ABSTRACT

The purpose of this study was to (1) clarify the contribution of The American University to graduate education at the doctoral level; (2) summarize the attitudes of doctoral graduates toward their experience at the University; and (3) inform American University graduates about the past achievements and present status of graduate work at the University. Questionnaires were sent to persons who received doctorates between 1916 and 1966. Findings are given on the following items: (1) field of study for earned doctorates; (2) previous academic background of doctoral graduates; (3) time span from bachelor's to doctorate; (4) doctorates to women; (5) number of American University doctorates in relation to certain national and local figures; (6) employment of doctoral candidates while studying; (7) travel and research; (8) publications and research; (9) evaluations by the doctoral graduates of strengths and weaknesses of the program, faculty and student-faculty relationships, fulltime and parttime study, and their experience at The American University; and (10) employment of doctoral graduates. Numerous tables are included as well as a list of doctoral graduates within field of study and year degree was conferred, biographical sketches of the doctoral candidates, and the questionnaire. (AF)

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A Survey and Analysis of Earned Doctorates, 1916-1966, at The American University, Washington, D.C.

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The American University
Washington, D.C.
May 1969

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Introduction

The American University was founded with the purpose of making a distinctive and significant contribution to graduate education and has long felt that it has done so. The University's influence has been especially notable in the Washington area. It has played a significant role in meeting the needs of Washington students, but in so doing, has circumscribed its impact on the disciplines nationally. Whether pragmatically supportable or not, academicians generally rate parttime and evening graduate study (typical of the University's programs over several decades) as less than desirable. The University's image has been that of an institution which has contributed in many important ways to the continued education of government officials but this function does not have the same consequence in the development of disciplinary status as does the production of doctoral graduates who enter higher education, whether in teaching, research or administration.

Is the image which the University has acquired a valid one? What has been the nature of The American University graduate programs? Who were the graduate students? What were their objectives? How well has the University met its goals? This study does not attempt to evaluate and find "answers" to these and other broad range questions. Instead, one manageable and identifiable segment of the results of the University's graduate work has been selected for detailed study—the graduates who were awarded earned doctorates from 1916 through 1966. The report which follows has three major objectives: 1) to clarify for ourselves, and for others, the contribution of The American University to graduate education at the doctoral level; 2) to summarize the attitudes of our doctoral graduates toward their experience at The American University; and 3) to inform our graduates about the past achievements and present status of graduate work at the University.

At this juncture in the University's history, it seems appropriate to assess the past and present role of The American University in graduate education, specifically at the doctoral level, and to utilize the results in the very essential task of charting the University's future.

The Founding of The American University

On October 6, 1914, The American University held its first class, a course in philosophy in which twenty-eight students enrolled. *The American University Courier* of December 1914 lists nineteen of these students as candidates for graduate degrees and the remaining nine as special students. Six of these original degree candidates did receive doctorates by 1923. The faculty in 1914 consisted of Dr. Frank W. Collier as Director of Research and eight parttime lecturers and research counselors. Dr. Collier remained with the University in various capacities for over twenty years.

Today, with new institutions of higher education opening almost weekly, it is difficult to realize and appreciate the enormous personal effort expended by a handful of dedicated men working toward the creation of The American University. The initial inspiration came from Methodist Bishop John Fletcher Hurst in the late 1880's. In 1890 Bishop Hurst located what he felt to be an ideal site which was described as "a beautiful and diversified piece of ground, ninety-two acres in extent, located on Loughboro Road, in the Northwest Heights of Washington, and [which] commanded a panoramic view over the District, the Manassas Plains, and the Blue Ridge Mountains of Virginia, the Harper's Ferry Notch, and Sugar Loaf Mountain of Western Maryland."[1]

Bishop Hurst must indeed have been "far-sighted" since normal vision would be unlikely to extend to these far corners. But the site was, and remains, a magnificent location for a university. Bishop Hurst personally assumed the burden of raising the $100,000 purchase price and, by 1895, the final payment had been made.

The initial Charter for the University was issued by the District of Columbia in 1891 but the date recognized as Founder's Day stems from the charter approved by the United States Congress and signed by President Harrison on February 24, 1893. Some twenty-one years elapsed before the University was formally opened by President Wilson on May 27, 1914. The first class was held that fall.

These twenty-one years were filled with the valiant efforts of Bishop Hurst and his successors to develop workable plans and financing for the University and the construction of some classroom facilities on the site. One building, then called the College of History (a title still found engraved above the entrance) and now called Hurst Hall, was completed in 1898. The College of Government, now called McKinley Hall, was begun in 1901, but by 1914 it remained just a shell of a building, having been completed on the exterior only.

Bishop Hurst's concept of the University was that of an institution offering graduate work only and was greatly influenced by the models of the German universities. But there was very little experience to draw on within the context of the American system of education. Virtually every American institution relied on a firm undergraduate base from which graduate programs evolved. Nevertheless, American University became one of the handful of institutions originated at the turn of the century which emphasized primarily the role of a graduate center of learning. It was not until 1925 that American University extended its work to the undergraduate level.

Although the trustees would willingly have opened the University much earlier than 1914, the major stumbling block was a condition imposed by the General Conference of the Methodist Church at its session in Omaha in 1892. The delegates to that Conference approved the creation of The American University but they added the stipulation that "the endowment of the institution shall be not less than five millions of dollars, over and above its present real estate, before any department of the University shall be opened."[2]

The trustees, after a few years of diligent efforts, hampered by two periods of economic depression, took the position that securing such an endowment would be possible only after showing potential donors an on-going university. At the 1912 General Conference, the minimum endowment requirement was withdrawn and the University Board of Trustees was given the sole responsibility for determining the conditions under which they felt ready to open the University. In retrospect, it is rather easy to suggest that if the General Conference had held firmly to its original requirement, the University (when and if it did open) would have been from the outset a stronger institution. Nevertheless, it is entirely understandable that the trustees, after many years delay, were eager to proceed and that they did open the University within two years.

Today it is difficult to imagine the pastoral nature of the location which was selected as the site for American University. During the period intervening between the 1893 Charter and the 1914 opening of the University, the Chancellor's Reports to the Board of Trustees carry many indications of the remoteness of the campus from the city itself. The extension of Massachusetts Avenue over Rock Creek Park merited special mention (1900) as did the prospect of the "laying out and grading of Nebraska Avenue along the Eastern front of the University grounds." (1900)

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[1] *The American University Courier*, Vol. XXI, No. 3, December, 1914, p. 11.

[2] "The Action of the General Conference, Omaha, Nebraska, May 25, 1892," *American University Courier*, Vol. I, No. 1, September, 1892, p. 3.

The announcement that the contract had been awarded for completion of Massachusetts Avenue "to our doors on Nebraska Avenue" thus providing "a direct way from us to the heart of the city," was just cause for pleasure. (1909) The next step was the proposal for an electric car line to the campus which was at first enthusiastically received (1911). But when the District Commissioners recommended to Congress that the costs of the line be assessed against those whose property abutted the line, the Chancellor reported his belief that the costs "would be so fatal a burden upon our financial resources" that such action would gravely imperil the as yet unopened University. (1912) Fortunately the University did not have to assume the costs, and by 1914 the line had been laid, regular schedules were in operation and a one day record number of 140 to 150 passengers had been achieved. (1914) In passing, it might be noted that a recurring problem reported to the trustees was that of trespass—more specifically "the presistent trespass across our grounds by a farmer living on the west of the grounds" which, if not halted, raised the question of public right of way across the entire campus. (1910) By 1916 the Chancellor was forced to report that the courts had ruled against the University; he recommended payment of the costs and a financial settlement rather than further appeal.

Perhaps these examples unduly emphasize the then-remote location of the campus. But this was a major consideration in the eventual decision to purchase (in 1920) the buildings and land at 19th and F Streets, Northwest. This "temporary" base was to serve as the principal location for the University's graduate programs for some 40 years while an undergraduate college was developed after 1925 at the Massachusetts Avenue Campus. In the 1950's the location of several of the graduate programs was moved to the Ward Circle Campus and in the 1960's the administrative consolidation was continued although many classes were still held at the downtown location. In February 1969 the last administrative offices located at 19th and F were moved to the campus and all classes are now scheduled at the Ward Circle Campus.

Fields of study for earned doctorates, 1916-1966

The first doctorates at American University were awarded June 2, 1916 to Elbert C. Lathrop in Chemistry and Junius S. Cates in Biology. In 1917, a single degree was granted and it went to Joshua J. Skinner in Biology. History and philosophy (2) and education were added in the 1918 Doctor of Philosophy degrees as well as the first Doctor of Civil Law. Religion in 1919, international relations in 1921, political science in 1922, economics in 1926 (including what is now classified as business administration) and physics in 1927 were the only other fields in which earned doctorates were awarded in the early years of the University. Prior to 1930, 97 doctorates had been earned, namely, 57 Doctor of Philosophy, 35 Doctor of Civil Law, two Doctor of Science, two Doctor of Juristic Science, and one Doctor of Jurisprudence.[3] Between 1930 and 1958, with the exception of one Doctor of Science in 1935, the Doctor of Philosophy was the only degree granted. The Doctor of Education was added in the mid-1950's and the first such degree was given in 1958.

The last of the earned doctorates in law was granted in 1928. Within the framework of the Doctor of Philosophy degree, several modifications of the fields in which the degree could be earned took place in the 1930's. Philosophy and religion were phased out as were all of the natural sciences. Psychology and public administration were available for a short time, but the emphasis was placed on doctoral work in the traditional social science fields —economics, history, sociology, international relations and government. By the mid-1930's, after most of the humanities and science students previously enrolled had completed their degrees, the total number of doctoral degrees awarded decreased sharply and in 1939 only one such degree was granted. Although there was a slight increase in the early 1940's, the war years virtually eliminated the doctoral student. No doctorates were granted in 1943. One degree in 1944 and one in 1945 were followed by six in 1946, two in 1947 and only one in 1948. Since 1948, the pattern has been generally upward although not invariably so.

The 1950's saw the expansion of doctoral work to the fields of mathematics, statistics, business administration and area studies with doctoral degrees awarded in 1953, 1957, 1961, and 1962, respectively. Doctoral work was re-instituted in education and the Ed. D. was conferred in 1958. Since the mid-1960's doctoral programs leading to the Doctor of Philosophy in education, physics, chemistry and philosohpy have been approved. No degrees in these programs had been conferred by 1966, the closing date of this fifty-year study.

Figure I in Appendix A charts the number of earned doctorates each year from 1916 through 1966, the period covered in this study, and also shows the number of doctorates awarded in the years 1967 and 1968. Table I in Appendix A shows the degrees (by title) conferred each year while Table II summarizes the degrees awarded by fields of study and by decades.

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[3] The current usage of the Doctor of Civil Law as an honorary degree and the Juris Doctor as the first professional degree may be confusing. The earned doctorates in law referred to here were based on work beyond the first professional degree in law.

Out of the 681 doctorates granted during this fifty year period, 275 or 40.4% were conferred between 1960 and 1966. Nearly 70% of the doctorates were conferred after 1950. The largest fields were international relations (121) and economics (115), followed by public administration (81), history (66), psychology (55), education (49), government (40), and sociology (28). Doctoral degrees in the natural sciences totaled 36, all in the pre-1940 period, while mathematics and statistics, in the post-1950 period, were the fields for eleven doctorates. Doctorates in law (all pre-1930) totaled 39 and in philosophy and religion (pre-1940) eighteen. Business administration (16) and area studies (6) completed the fields. Neither the 1967 nor the 1968 doctoral graduates are included in this study. The number of degrees in each of these two years and the fields of study are, as a matter of interest, shown below.[4]

Previous academic background of doctoral graduates

American University doctoral graduates in the years 1916-1966 received their undergraduate degrees from institutions in forty-six states, Puerto Rico, the District of Columbia, and twenty-seven foreign countries. As Table III shows (see Appendix A), the largest number from any single political division—113 or 16.6% of the total—completed their undergraduate work at universities in the District of Columbia. Institutions in the state of New York provided the undergraduate education for 93 students, while colleges in the states of Ohio and Pennsylvania were the undergraduate base for 72 students, with 36 from each state.

According to a study published in 1967 by the National Academy of Sciences, the one hundred institutions which were the leading baccalaureate sources of those earning doctorates between 1958 and 1966 accounted for the undergraduate origin of 56% of all doctorates awarded during that period. In other words, one hundred colleges and universities had awarded the bachelor's degrees to over half the men and women who completed earned doctorates between 1958 and 1966. The top fifteen of these institutions, in rank order, were University of California at Berkeley, City College of the City of New York, University of Illinois, Harvard University, University of Wisconsin, Massachusetts Institute of Technology, University of Michigan, University of Minnesota, Brooklyn College, University of California at Los Angeles,New York University, Cornell University, University of Chicago, Columbia University, and Ohio State University. These fifteen colleges and universities were the undergraduate institutions for 20.6% of *all* doctoral degree recipients between 1958 and 1966.[5]

The undergraduate sources of American University doctorates paralleled fairly closely the national pattern. During the same time period (1958-1966), American awarded doctorates to 333 individuals. Of these graduates, 158 or 47.4% had received baccalaureate degrees from 59 of the institutions included in the one hundred largest baccalaureate sources nationally. Each of the fifteen colleges and universities (identified above) which nationally were the largest sources, were represented in American's doctoral graduates. Together these fifteen were the baccalaureate institutions of 57 (17.1%) of the 333 earned doctorates at American. American University, not itself among the largest sources nationally, was the undergraduate institution for another 25 (7.5%) of the University's earned doctorates in this period.

Table IV in Appendix A shows for the period 1916-1966 the institutions from which four or more of our doctoral graduates received their undergraduate degrees. The two largest groups came from George Washington University (52) and American University (43), 7.6% and 6.3%, respectively, of the 680 total.[6] The American University total includes three early graduates of the Washington College of Law which in 1949 affiliated with the University. City College of New York follows closely with 36, while the University of Maryland provided 11 and New York University 10. Nine each came from Georgetown, Harvard, Ohio State and Syracuse. Howard University, the University of Nebraska and the University of Wisconsin each were the undergraduate source of eight doctorates. The thirty-one institutions listed in Table IV gave the bachelor's or first professional degree to 306 or 45% of the American University earned doctorates. Of the others, 297 came from 208 colleges in the United States and 77 entered from 49 institutions located in twenty-seven foreign countries (See Appendix A, Table V). Of these, institutions in India provided the largest number, 18, followed by Lebanon, 8, and Egypt and Syria, 6 each. A number of other foreign students who received doctorates had completed an undergraduate degree in the United States and therefore are included in the appropriate state totals. The total number of foreign students who received doctorates from American University cannot be ascertained. Valid information on citizenship is not available for the fifty year period encompassed in this study.

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[4] The 1967 doctoral recipients added 65 doctorates in these fields: Doctor of Education (11); Doctor of Philosophy - Education (2), Physics (1), Government (5), History (5), International Relations (16), Area Studies (2), Business Administration (5), Economics (1), Sociology (3), Psychology (5), and Public Administration (9).

In 1968, eighty-eight doctorates were awarded as follows: Doctor of Education (8); Doctor of Philosophy - Education (5), Physics (1), Government (9), History (2), International Relations (29), Area Studies (8), Business Administration (13), Economics (4), Sociology (3), Public Administration (5), and Statistics (1).

[5] *Doctorate Recipients From United States Universities 1958-1966*. Publication 1489, National Academy of Sciences, Washington, D.C., 1967. pp. 19-21.

[6] The number of doctoral degrees in the tables will total 681, since two degrees were earned by one student. The number of individuals receiving doctorates totals only 680.

A further look at the educational background of doctoral recipients reveals that twenty-nine who received undergraduate degrees at American also took a master's degree at American, four by-passed the master's degree, and seven, after going elsewhere for the master's, returned to American for the doctorate. A total of 192 students, or 28.2% of the doctoral recipients, completed the master's degree at American.

Institutions other than American from which at least four doctoral graduates received a master's degree, and the number from each, include:

George Washington University	76
Columbia University	29
Harvard University	16
University of Maryland	16
New York University	14
Northwestern University	12
Syracuse University	9
University of Pennsylvania	9
Howard University	9
City College of New York	6
University of Pittsburgh	6
Ohio State University	6
University of Wisconsin	6
University of Nebraska	6
Stanford University	6
University of Michigan	5
University of Chicago	5
Duke University	5
Cornell University	4
University of Minnesota	4
State University of Iowa	4
Catholic University	4
Georgetown University	4
University of California at Berkeley	4

These twenty-four universities conferred the master's degree on 265 (39%) of The American University doctoral graduates.

Some nine universities each provided three holder's of a master's degree while twenty-four institutions each had two master's level graduates. Holders of a master's degree from some 50 other universities in the United States and 16 institutions abroad round out the picture with respect to completed programs of graduate study prior to doctoral study at American University. Only 78 of the 680 doctoral graduates by-passed the master's degree, going directly from the bachelor's to the doctor's degree.

Quite a number of the doctoral graduates hold more than one earned degree on the bachelor's, first professional and master's levels. Some hold other doctorates. No attempt has been made to tabulate these additional degrees although the probable winner for sheer variety would seem to be either the woman who held the A.B., M.A., Ph.D., LL.B., and LL.M., and then completed the D.C.L. in 1928, or the man who had received the LL.B., M.E., A.M., M.P.L., M.B.A., and M.A. who then completed the Ph.D. in 1960. One student, Stuart Lewis, completed two doctorates at American University—the Doctor of Jurisprudence in 1922 and the Doctor of Philosophy in political science in 1923.

Time span from bachelor's to doctorate

The most recent national figures on the length of time between the baccalaurate and the doctorate and the age at which the latter was attained are provided by the National Academy of Sciences study previously mentioned. These figures relate to the years 1964 to 1966 and the year 1967. They show that the median number of years from the baccalaurate to the doctorate for graduates in the years 1964 to 1966 was 8.2 for all fields, 8.0 years for the social sciences (ranging from 7.1 in psychology to 9.3 in anthropology), 9.6 years for business administration and 13.8 years for education.[7] In 1967, the median changed slightly, moving down to 8.1 for all fields, and ranging in the social sciences from 6.9 in psychology to 9.3 in sociology. In business administration and in education the median increased to 10 years and 14 years, respectively.[8]

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[7] See *Doctorate Recipients from United States Universities 1958-1966, op. cit.*, pp. 64-72.

[8] *Summary Report 1967, Doctorate Recipients from United States Universities*, National Academy of Sciences, Washington, D.C., 1968, pp. 6-7.

In view of the dominant pattern of education of American University doctoral graduates, (namely, the transfer from one institution to another for each degree), perhaps the most relevant national figure is the one for 1964-66 graduates which shows a median elapsed time of 11.3 years from baccalaurate to doctorate for those who received degrees from three different institutions and 9.8 years for those who transferred only after the master's degree.[9]

The median age of doctoral recipients nationally in 1966 for all fields was 31.5 years for men and 35.3 years for women. In the social sciences, the median ages were 31.7 for men and 33.7 for women. In business administration the median, 33.4, was reported only for men, while in education the figures were 37.8 years for men and 41.2 years for women.[10]

For American University doctorates, the median number of years from the initial degree to the doctorate was 14.5 for the 1964-66 period and 14.4 for the 1960-66 period. As a matter of interest, the *average* number of years for all earned doctorates over the fifty year period was computed and also was 14.4, indicating a remarkable consistency in the pattern of elapsed time between the earning of the undergraduate degree and the doctorate. This span of time, while long, is not unexpected considering the pattern of predominately parttime enrollment of our students. The length of time between the initiation of a doctoral program and its completion would be a more significant figure if adequate data were available. From the imprecise data provided by those who responded to the questionaire (see p. 12) this period ranged from one to 26 years and averaged 6.3 years. This figure is not an especially reliable indicator since it was not always possible to clearly identify the date of initiation of graduate work as opposed to initiation of doctoral work at American University. More tangible is the age at which the doctorate was received. Data on the year of birth for the 156 doctoral recipients from 1964-66 give a median age of 39.1 at conferral of the degree. Considered by field, the median ages of graduates in business administration and public administration were the highest, 43.5 and 44.0 years, respectively. The lowest median ages were in government, 34.5, international relations and area studies, 36.5, and history, 38.5.

While the significance of comparisons between national data relating to the 1964-66 period and American University data for the same period may be affected by the relatively small number of individuals in the case of the latter, it does appear correct to say that the median age of the American University doctorates was about eight years higher than the recent national median and that the number of years from the bachelor's to the doctorate was from three to six years longer than the recent national figures, depending on the number of diffierent institutions attended.

Doctorates to women

Only 67 of the 1916-1966 American University doctoral graduates were women. The fields for women were education (15), international relations (10), public administration (9), psychology, history and sociology (7 each), economics (4), law (3), political science (2), and philosophy, religion, and chemistry (one each). Thirty-two women graduated in the 1960's, accounting for 11.6% of all the doctorates in that period. This was an increase over the 1950's when 17 women received doctorates and in the pre-1950 period when 18 women received doctorates; the proportion of women recipients of such degrees in those two periods was 5.5% and 8.7%, respectively.

By fields, women received 30.6% of all the doctorates in education and 25.0% of those in sociology. By way of contrast, in economics, only 3.5% of the graduates were women and in political science, only 5.0%. There were no women among the doctoral graduates in the fields of mathematics, statistics, physics, biology, area studies and business administration.

For purposes of comparison, it may be noted that nationally, during the period 1958-1966, 11% of all earned doctorates were recieved by women. However, only 6446, or 53% of the 12,150 doctorates conferred on women, were in fields in which American University offered doctoral programs.[11] For the fields in which American University awarded doctorates, the table below compares the national percentages with those for American University during the same time span:

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[9] *Doctorate Recipients from United States Universities 1958-1966, op. cit.*, p. 77. These figures are for graduates with a baccalaureate from an institution in the United States.

[10] *Ibid.*, pp. 111-113.

[11] *Ibid.*, pp. 108-109.

Table 1

Comparison of Number and Percent of Doctorates Earned by Women, Nationally and at The American University, 1958-1966[12]

	1958-66 # Women U.S.	% of Total In Field	1958-66 A.U. Totals	# Women A.U.	% of A.U. Total In Field	A.U. % of U.S. Total for Women In Field
Psychology	1,527	19.1	41	6	14.6	.4
History	414	10.6	26	1	3.8	.2
Business Admin.	45	2.4	14	–	–	–
Education	3,581	19.5	34	11	32.4	.9
Economics	158	4.0	49	3	6.1	1.9
Sociology	277	15.7	18	5	27.8	1.8
Political Science (including Public Adm., IR, Area Studies)	204	7.7	145	13	9.0	6.4
Mathematics and Statistics	240	5.9	6	–	–	–
Total, Fields Above	6,446	14.4	333	39	11.7	.6
Total U.S. All Fields, including those not listed above	12,150	11.0				

When the national figures are considered only for the fields in which American University awarded doctorates in the 1958-1966 period, the national proportion awarded to women is somewhat greater, 14.4%, than the 11% for all fields. By fields, the American University figures shown in the table above (in which some fields have been combined to conform to the available national data) show a substantially larger proportion of women doctorates at American in the years 1958-1966 in education (32.4% compared with 19.5% nationally) and sociology (27.8% compared with 15.7% nationally), and a somewhat larger proportion in economics (6.1% versus 4.0% nationally) and in the broadly defined field of political science (9.0% versus 7.7% nationally). In history (3.8% at American and 10.6% nationally) and psychology (14.6% at American and 19.1% nationally) American was noticeably below the national figures. American awarded no doctorates to women in mathematics and statistics and business administration whereas nationally the proportion of women was 5.9% and 2.4%, respectively.

The last column in the table offers another view of the relative proportion of women earning doctorates. Again limiting our comparison to the fields in which American University offered doctoral programs, this column shows the percentage which American University women doctorates were of the doctorates earned nationally by women in that field. Most striking is the fact that the 13 women in political science—defined to include government, public administration, international relations and area studies—at American University constituted 6.4% of the 204 degrees in political science awarded nationally to women. In two fields, economics and sociology, the American University women graduates accounted for just under 2% of the national total while in education the figure was just under 1%.

Number of American University doctorates in relation to certain national and local figures

As an overall review and analysis of the doctoral degrees conferred during the period 1958-1966, the National Academy of Sciences study is exceptionally useful. However, the study is subject to certain limitations. One of these is the grouping of the various sub-fields and the necessity, in a study as extensive as it is, to use broad categories of fields of study in most of the tables. But perhaps an even greater problem for the person who wishes to make comparisons with specific institutional data is the fact that the "field of study" data accumulated by the National Academy of Sciences is based on self-classification by each doctoral graduate. In short, each graduating doctoral student completes a questionnaire in which he selects from the "specialities list" supplied, his field of study. It is this information which is utilized in creation of the Office of Scientific Personnel data base which in turn the National Academy of Sciences study uses. The difference between figures based on this data and the institutionally reported figures published by the Office of Education can be significant. Using just the year 1965-66, the table below illustrates the problem as it relates to the field of political science:

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[12] National figures from *ibid.*, pp. 5-9, 108-109.

Table 2

Academic Year 1965-66 Doctorates in Political Science and Sub-fields as Reported in Two Sources

# Reported in NAS Doctorate Recipients [13]		# Reported in Office of Education Earned Degrees Conferred [14]	
Political Science and Public Administration	327	Political Science	336
		Public Administration	29
International Relations	74	International Relations	49
Area Studies	1	Area Studies	46
Total	402	Total	460

It is quite obvious that although the figures above for the entire field differ by more than ten percent[15], the really striking differences are in the sub-field figures. For American University, any attempt to relate specific institutional figures to the national totals of sub-fields must be based on the reports of the Office of Education.

For the four year period 1962-63 through 1965-1966, the national total of doctorates awarded, as reported by the Office of Education, and the number of American University doctorates and the percent these degrees were of the national totals, are shown in the following table:

Table 3

Earned Doctorates Conferred, Nationally and at The American University, 1962-63 through 1965-66, by Field[16]

	# Doctorates Awarded Nationally	# Doctorates Awarded by American U.	% of National Total in Field
Political Science	1,131	10	.9
International Relations	172	49	28.5
Public Administration	126	21	16.7
Area Studies	147	5	3.4
Sub-total: all Political Science	1,576	85	5.4
Economics	1,584	26	1.6
History	2,060	14	.7
Sociology	880	9	1.0
Psychology	3,776	24	.6
Mathematics	2,235	1	–
Statistics	315	1	.3
Business Administration	1,233	13	1.1
Education	10,194	19	.2
Total—fields offered by American U.	23,853	192	.8
Other fields	38,165	–	–
Total doctorates	62,018	192	.3

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[13] *Ibid.*, p. 7.

[14] *Earned Degrees Conferred* 1965-66, Office of Education, U.S. Government Printing Office, Washington, D.C., pp. 242-43, 255-260, 267.

[15] A difference of this magnitude between the National Academy of Sciences figure and the Office of Education report is unusual. There was a difference of only 2% between the reported total number of earned doctorates in all fields in the two reports for the year 1965-66.

[16] National data from *Earned Degrees Conferred*, Office of Education, U.S. Government Printing Office, Washington, D.C. Years 1962-1963, 1963-1964, 1964-1965, 1965-1966.

The field of political science has been sub-divided at American University to a greater extent than has been the case at most institutions. In most universities the common practice is to award the degree in political science even though the particular emphasis of a given student may be international relations or public administration. The largest number of institutions awarding degrees in the specific sub-fields in any given year in the period covered in the table above was quite small, namely 11 in international relations (1964-65), 8 in public administration (1964-65), and 18 in area studies (1964-65). In contrast, the maximum number of institutions conferring doctorates in "political science" was 63 and that was in the year 1965-66. During this four year period only two universities—American and the University of Pennsylvania—awarded doctorates in all four categories. Furthermore, only three other universities (Syracuse, University of Pittsburgh and Johns Hopkins) awarded doctorates in each of three clearly political science sub-fields.[17] Within this context, the rather startling proportion of the degrees awarded by American University in the sub-fields of international relations (28.5%) and public administration (16.7%) can be more realistically appraised.

The aggregate totals for the four political science sub-fields show that American University with 5.4% of the national total was a substantial contributor to the doctorates in this field during the 1962-1966 period. In only three other fields did American award one percent or more of the national total, namely, economics with 1.6%, business administration with 1.1% and sociology with 1.0%.

Using the longer period covered in the National Academy of Sciences study, i.e., 1958-1966, four of the five institutions in the District of Columbia which offer doctoral programs ranked in the top 100 largest doctorate producing institutions. Based on the aggregate number of doctorates awarded in this nine year period, Catholic University ranked 39th, Georgetown University 80th, American University 83rd, and George Washington University 88th.[18] Howard University, the other doctorate granting university in the District, offers only a limited number of doctoral programs and was not among the 100 universities which produced the largest number of doctorates.

Among the five doctorate granting institutions in the District of Columbia, American University during each of the years 1962-63 through 1965-66 awarded a very high proportion of the doctorates in the broad field of political science, with special emphasis on the fields of international relations and public administration. Ranging from 15

Table 4
Number of Doctorates, by Field, Awarded by Universities in the District of Columbia, 1962-63 through 1965-66 and Number and Percent by The American University[19]

	1962-63			1965-66			Total 1962-63 through 1965-66		
	# by District of Columbia Universities	American University #	%	# by District of Columbia Universities	American University #	%	# by District of Columbia Universities	American University #	%
Political Science - - - - - - -	12	1		8		1	47	10	21.3
International Rel. - - - - - -	5	5		18	18		49	49	100.0
Public Admin. - - - - - - - -	7	7		4	4		22	22	100.0
Area Studies - - - - - - - - -	3	2		5	2		11	5	45.5
All Political Science - - - -	27	15	55.6	35	25	71.4	129	86	66.7
Economics - - - - - - - - - -	12	5	41.7	14	7	50.0	56	26	46.4
Sociology - - - - - - - - - - -	6	2	33.3	5	1	20.0	30	9	30.0
Psychology - - - - - - - - - -	19	9	47.4	15	4	26.7	79	24	30.4
History - - - - - - - - - - - -	16	2	12.5	25	5	20.0	77	14	18.2
Business Admin. - - - - - -	2	2	100.0	13	3	23.1	31	13	41.9
Education - - - - - - - - - -	29	2	6.9	41	6	14.1	146	19	13.0
Mathematics and Statistics - - - - - - - - - -	2	–	–	5	–	–	22	2	9.1
Sub-total - - - - - - - -	113	37	32.7	153	51	33.3	570	193	33.9
Other fields - - - - - - - - - -	111	–	–	142	–	–	490	–	–
Total - - - - - - - - - - - - -	224	37	16.5	295	51	17.3	1,060	193	18.2

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[17] Area Studies at American University has been heavily political science oriented. While this is probably true at some other universities, it is by no means necessarily the case.

[18] *Doctorate Recipients from United States Universities 1958-1966, op. cit.*, pp. 14-17.

[19] Based on data in *Earned Degrees Conferred*, Office of Education, U.S. Government Printing Office, Washington, D.C., Years 1962-1963, 1963-1964, 1964-1965, and 1965-1966.

out of a total of 27 in 1962-63 to 25 out of 35 in 1965-66, the political science doctorates conferred by American University constituted from 55.6% to 71.4% of all such doctorates granted annually by the universities in the District of Columbia and two thirds of the total over the four years. Of special note is the fact that American was the only university awarding doctorates specifically in international relations and in public administration. The position of the University in other fields varied considerably from year to year, as Table 4 illustrates.

In each of the four years and in the aggregate for the four years American awarded less than one-fifth of all the doctorates in the District of Columbia and approximately one-third of the doctorates in the fields in which this University has doctoral programs.

Returning to the national level, another measure of the position of the University in the quantitative side of doctoral production can be found in the rank order listings by field prepared by the National Academy of Sciences. For each of the three year periods within the time span of 1958-1966 the rank of American University based on number of doctorates awarded is shown below, along with the total number of institutions awarding doctorates in each field.[20]

Table 5

The American University Rank, In Number of Doctorates Conferred, Among Total Number of Institutions Conferring Doctorates, by Fields, 1958-60, 1961-63, 1964-66

	1958-60		1961-63		1964-66	
	A.U. Rank	Total # Institutions	A.U. Rank	Total # Institutions	A.U. Rank	Total # Institutions
Political Science & Intl. Relations (including Public Admin. & Area Studies)- - -	4	58	7	70	3	71
Economics- - - - - - - - - - -	21	72	37	83	27	92
Sociology - - - - - - - - - - -	21	59	42	62	35	68
Business Admin. - - - - - - -	–	–	29	39	36	47
Psychology - - - - - - - - - -	68	87	51	103	68	116
History- - - - - - - - - - - - -	37	75	45	84	43	97
Mathematics and Statistics -	64	76	78	87	92	100
Education - - - - - - - - - - -	78	100	83	107	86	119

These figures, when viewed in conjunction with the percentage of all doctorates awarded by fields, show that in the area of political science, broadly defined, American University is one of the major sources of doctorates. Although American University awarded only 145 doctorates in the broad field termed political science—some 4.9% of the national total of 2933 doctorates in this field from 1958 to 1966[21]—this number meant ranks of 4th, 7th and 3rd among the institutions offering political science doctorates in the three periods covered in the table above. Only in economics and in sociology among the other fields did American in any of the three periods rank numerically in the top one-third of the universities awarding doctorates in these fields.

Volume is not, of course, the goal sought by doctorate granting institutions. Various measures of the "quality" of doctoral programs have been attempted. The most recent evaluation, prepared by Alan Cartter while he was with the American Council on Education, points out that universities in the District of Columbia are noticeably absent from the top ratings based on the views of leaders in the various disciplines. In a severe indictment—probably representative of the attitude of the educational "establishment" toward the universities in the District of Columbia—Cartter takes the following position:

> One discouraging feature of our regional review, however, is that the nation's capital stands out as one of the few major cities in the United States which do not have one or more universities of notable strength. (If international relations had been included in our survey, the Johns Hopkins School of Advanced International Studies and Georgetown University might have made a strong showing in that field.) In the 29 disciplines under review, a total of 56 departments in the four universities of the District of Columbia were included in the study, and only two managed to achieve ratings above "Adequate plus." It is hoped that the recent consortium agreements among the universities in the capital will bring about some improvement in the years immediately ahead.[22]

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[20] *Doctorate Recipients from United States Universities 1958-1966*, *op. cit.*, pp. 14-17.

[21] Chase, John L., "Doctor's Degrees Conferred by U.S. Institutions: By State, By Institution, and By Field, 1957-1958 through 1966-1967," Office of Education, # OE-54044, Washington, D.C. January 1969, p. 3. If the National Academy of Sciences total for political science doctorates during this period were used, the American University percentage would be 5.5%.

[22] Cartter, Allan M., *An Assessment of Quality in Graduate Education*, American Council on Education, Washington, D.C., 1966, p. 111.

What the spokesmen of the establishment, even that portion of it based in Washington, fail to take cognizance of are the inherent problems of a university located in an area dominated by the federal government. The normal local sources of private financial support are not present to any significant degree and the needs of the community virtually compel approaches to graduate study which run counter to those to which the establishment has been so totally committed.

By taking only partial advantage of the unique Washington location, American University has placed itself in the anomalous position of an institution located in the nation's capital with all of the resulting potential opportunities for developing nationally significant programs but which has existed primarily to serve local rather than national needs. The future focus of the University's efforts will require answers to some basic questions. What will the University have to do to attract adequate financial support from private sources? Will it have to withdraw from community needs and insist on conducting only traditionally organized and oriented graduate programs? Will it have to ignore the overwhelming needs for parttime study opportunities in this community? Will it have to refuse to utilize the wealth of instructional capabilities of individuals employed by the government and the multitude of other organizations located in Washington? Whatever response may be forthcoming to these and other questions, American University's past experience has been that willingness to interact with and respond to the Washington community has contributed significantly to inhibiting the development of national recognition by the academic community.

Important changes in the patterns of graduate study and graduate instruction at American University have been initiated in the past few years,[23] but most of the doctoral graduates included in this study (1916-1966) completed their work under the conditions typical of the period prior to the mid-1960's.

The dilemma to be resolved is that while one of the primary objectives of The American University must be to so conduct our doctoral programs that their quality will be acknowledged within the various professional groups, ways must be found to do this without reneging on our acknowledged role within the unique Washington community.

Contacting the graduates

Any assessment of the doctoral work conducted by a university should include, among other things, some "input" from the graduates themselves. This is especially necessary with respect to the effectiveness and value of the programs. Equally useful is an analysis of "outcomes" in terms of the professional activities of the graduates. To secure the basic information and opinions essential to such evaluations, a questionnaire to be sent to all doctoral graduates of American University was devised. In addition to providing a variety of factual data, the graduates were requested to respond to a series of open-ended questions concerning their experience at American University. A copy of the questionnaire is included as Appendix D.

The attempt to put this questionnaire into the hands of as many as possible of the 680 American University doctoral graduates of the past 50 years required the cooperation of several University offices as well as use of non-University sources. To compile the basic list, the Office of Institutional Studies started with the roster of earned doctorates produced by the National Research Council of the National Academy of Sciences. This list covered the years 1920-1963 and incorporated varying amounts of information concerning each person, including in most cases the field of study, undergraduate and graduate colleges and the years in which degrees were granted. This list was checked against the University's file of commencement programs and other records, information was verified, and missing data located if possible. Comparable information was prepared for the pre-1920 and post-1963 graduates.

Determining the fields of study for some of our early graduates was somewhat difficult and, with the exception of political science, any breakdown by sub-fields proved impractical. Where the records were not clear with respect to the major of a graduate, the dissertation title as well as the National Research Council designation of field were consulted. In a few instances, this method of determining the field of study resulted in some inconsistencies when compared with the programs "officially" available at the University at a given time. Thus, for example, the American University degrees granted as identified in this study include a doctorate in business administration in the 1930's although doctorates were not formally granted in that field until the 1960's. The objective was to reflect, as accurately as possible, the student's primary field of study and research and we feel that this objective has been attained.

The University's Alumni Office provided most of the addresses, and the original mailing went out to this list on October 6, 1966. The search for missing addresses, and current addresses for those letters which were returned, continued for several weeks. Reminder cards were mailed early in 1967 and acknowledgements were sent to those who had completed and returned the questionnaire. In summary, questionnaires were mailed to and, presumably, received by 535 graduates. Current addresses could not be located for 64 graduates (including 24 foreign students) and it was ascertained that 81 were no longer living. Responses were received from 265, or 49.5% of those assumed to have received the request. Twenty-nine graduates with foreign addresses were among those who did not respond.

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[23] See pp. 30-32 *infra*, for brief notes on some of the major changes.

In early October, 1967 one final effort was made to reach graduates for whom we believed we had valid addresses. Return postal cards were mailed and by November 1, 92 responses had been received. The information requested related only to current address and occupation. We continued to receive cards and even an occasional questionnaire over the next several months. While the postal card responses obviously are not included in the analysis of the responses to the full questionnaire, the information secured has been included in the biographical sketches and in the tabulation of occupations, as has been the information gleaned from a wide variety of other sources.

Response to the questionnaire

How representative were the 265 respondents to the full questionnaire? We can get some indication by looking at the year of graduation and at the fields of study. Of the 174 individuals who received doctoral degrees between 1916 and 1940, we believe the questionnaire reached 78 of whom 41 (52.6%) responded. Only 31 doctorates were granted in the 1940's, twenty-four of whom presumably received our inquiry, and nine (37.5%) responded. The graduates in the 1950's totaled 200. The questionnaire was assumed to have reached 170 and 88 (51.8%) replied. For the 275 1960-1966 graduates, we reached 263, of whom 127 (48.3%) replied.

By fields, the percent of response varies widely. In the fields in which degrees were conferred in the pre-1940 period, the number of responses and the percentage of responses from those assumed to have received the questionnaire were:

	# responses	% of those assumed to have received questionnaire
Law	5	38.5
Physics	–	–
Chemistry	9	75.0
Biology	2	33.0
Philosophy	8	88.9
Religion	1	100.0

For those fields in which doctorates have been awarded throughout much of the fifty year period, the responses were:

	# responses	% of those assumed to have received questionnaire
Political Science	19	61.3
International Relations	36	36.4
Psychology	22	42.3
History	33	62.3
Economics	39	41.5
Public Administration	41	56.9
Sociology	9	37.5

Fields in which degrees have been granted chiefly in the 1950's and 1960's yielded the following responses:

	# responses	% of those assumed to have received questionnaire
Education	20	54.1
Mathematics	3	75.0
Statistics	3	50.0
Business Administration	13	81.3
Area Studies	2	33.3

In the two largest fields, international relations and economics, the low rates of response were in part due to the sizable number of foreign students who may not have received the questionnaire or who, at any rate, did not respond.

While these figures indicate that the responses did not constitute an entirely balanced "sample," they do represent virtually the full scope of the University's doctoral offerings and cover a surprisingly wide time span. One of the original graduating class in 1916 and seventeen of the graduates in the 1920's were among those who responded to the questionnaire.

Not all of the 265 who returned the questionnaire completed each of the requested items but some compilations of general data are of interest.

Employment while studying

An overwhelming majority of the graduates were employed fulltime while working on their doctorates. A few students alternated between fulltime and parttime employment. Although the number of fulltime doctoral level students is now increasing, the graduates covered in this survey were clearly more representative of those students who had pursued the parttime study pattern which prevailed throughout the history of graduate work at American University.

Our graduate students supported themselves and their families with a wide variety of jobs both in and out of government. Some of the most frequent positions reported included economist, statistician, research psychologist, or clinical psychologist, personnel officer, management analyst, foreign service officer, intelligence analyst or specialist, and military officer. Over 40 were engaged in teaching, chiefly at the college level. Nine were ministers or chaplains and one was a deaconess. Other positions or occupations, as reported by the graduates, included: Project Engineer, Guided Missiles Division; manager of retail business; hotel manager; registered representative, New York Stock Exchange; press secretary to a member of Congress; policeman and elevator operator, United States Senate; real estate; trademark and patent examiner; employee relations; public utility consultant (combined with occasional work as a pianist and leader of a jazz trio); senior script writer for Voice of America; embassy employee; drama editor of a Washington newspaper; employee in electronic and R and D firm; administrative assistant to the president of a life insurance firm; position with trade association; employee of educational organization; position with professional association; chemist; operations research; claims attorney; mathematician; procurement; hearing examiner; foreign affairs officer; budget officer; historian; and housewife. One of the latter, although not formally employed, reported that she had three children while working on her doctorate and it was quite apparent that she felt any further comment was unnecessary.

As would be expected in a basically parttime student body, not many students received grants or scholarships. The most common forms of assistance were not University generated but rather came through government programs such as the "G I Bill" and various programs of payment of tuition by the employing agency. A concomitant of the increasing number of fulltime doctoral level students at American University is an expanding program of University supported graduate assistance as well as foundation and government financed fellowships. Although the number of such awards and the amount of financial aid available have increased substantially in the past few years, the University recognizes the urgent need to do much more in this aspect of developing its graduate programs.

Travel and research

Our graduates have traveled throughout the world with business, professional, military, and research objectives as well as for pleasure. For those who gave a specific response, Western Europe led the list with travel to that area reported by 193 graduates, followed by the Far East 67, Latin America 48, Eastern Europe 41, Middle East 36, North Africa 34, Southeast Asia 23, Central and South Africa 17, South Asia 18, Australia and New Zealand 12. Many others simply indicated that they had traveled extensively.

Publications and research

The questionnaire requested information on publications and research. Some of the graduates included full bibliographies but others merely responded in general terms—"numerous articles," "several books"—which precluded any serious effort to compile a meaningful listing of publications. The staff of the Office of Institutional Studies then checked volumes of the *Cumulative Book Index* for the past ten years (January 1957-January 1967) against the names of all of our doctoral graduates. The resulting list of books published during this ten year period includes 62 authors and 134 titles. The list does not include the many studies and reports prepared under government auspices and, usually, published by the Government Printing Office. Many of these have had a significant effect on governmental policies and practices.

Scholarly and professional journals and periodicals have included many articles by our graduates. The Office of Institutional Studies was unable to undertake the same type of searching of periodical listings as was done for books. But from the information provided by just the 265 who replied to the questionnaire, our graduates have had their work published in at least 130 journals covering virtually all of the leading publications in the fields in which we offer the doctorate.

Evaluation of the publications of our graduates is not a task which this Office would presume to undertake. Only those persons deeply involved in each of the disciplines could take on such a task. Nevertheless, from a review of the titles, the non-specialist would be compelled to note the job-related or "applied," nature of much of the published work. This does not detract from the usefulness of the publications. Rather, it reflects quite accurately the nature and the interests of the majority of both the student body and the faculty over the larger part of the period covered in this study.

Lest the wrong impression be given, it should be noted that publications by our graduates also include many theoretically oriented works and, furthermore, that in recent years the trend has been to produce more of this type of scholarly work. Undoubtedly as more of our graduates enter teaching and research this trend will become even more pronounced.

Evaluation by the graduates

Many of the early graduates who replied to the questionnaire felt that the comments which were solicited on the programs, instruction, facilities and related matters would be of no real value today and therefore limited their replies to the factual data. Because we felt that the changes in the University in the past few years might well be reflected in the opinions expressed we have, where appropriate, indicated major differences in the comments of the pre-1960 and post-1960 graduates. Since there is ordinarily a substantial time period between completion of course work and comprehensives and the final conferring of the degree, the comments of the first group should relate principally to the period up to the late 1950's. The latter group should more nearly reflect recent practices and attitudes and should be of special value to those currently responsible for graduate work at the University. There have been, however, recent changes of a substantial nature in some programs and procedures, as well as in the composition of the student body, changes which are not reflected in the comments of the graduates in this survey.

The comments have been grouped in the following categories: (a) the strengths and weaknesses of the programs offered, (b) evaluation of faculty and of student-faculty relationships, (c) the role and problems of parttime study, and (d) overall comments on the student's experience at American University.

Quite obviously, one cannot neatly separate these categories—and it is only in the interaction of programs, faculty, students and community that we can attempt to identify and evaluate the role of American University in doctoral study over the past fifty years. In this particular phase of this study, we have attempted to do this as objectively as possible, through the eyes of the graduates themselves.

Strengths and weaknesses of programs

Over the fifty years from 1916 to 1966, several additions and deletions were made in the fields in which the University offered doctoral work. These changes were outlined earlier in this paper. Suffice it to say, the social sciences have been dominant throughout the years and the majority of the comments which follow will relate to these fields and to the applied social sciences and education.

The wide variety of course offerings made the programs attractive to most students. Flexibility in course requirements and willingness to meet specific desires and needs—and at varying rates of speed—were appreciated. Permitting the "mature scholar to carry on studies reasonably independently" was the usual practice. Yet there was also the occasional feeling that time spent and numbers of courses taken were considered more important in progress toward the degree than the learning experience.

Course work did indeed constitute the core of the formal and (more or less) structured programs. The scarcity of seminars and strictly doctoral level classes, the mixture of advanced undergraduates and graduate students in certain levels of courses, the uneven quality of instruction, and the operational rather than research emphasis were mentioned as weaknesses of the course offerings. A lack of emphasis on methodology and research courses was noted in the comments of those graduates who felt that in some fields the faculty had failed to keep abreast of new developments and that programs and faculty tended to "overstress the practical to the detriment of the theoretical." Indeed, the "practical" was stressed in many fields and it was this very approach which appealed to other students.

A public administration graduate reflected the views of a large number of his fellow students in describing the strengths of the program as the "obvious strengths of Washington, including direct participation of practicing administrators and advantages of job-motivated graduate students." But this graduate—and several others—also pointed out that the University has not taken full advantage of its Washington location.

The comprehensive examinations and the tool requirements were the subjects of widely varying comments. In general, the system of written comprehensives was regarded favorably although suggestions were advanced concerning the number of comprehensives required, the method of evaluating the examinations, and the levels of achievement expected. Probably the major complaint related to the possibility—and even probability in some fields—that the readers would be parttime faculty with whom the student had little or no contact. The sometime practice of keeping the identity of the readers "secret" and their specific comments "unattributable" was characterized by one graduate as a "Star Chamber atmosphere." This practice probably originated in the understandable desire to protect faculty from undue pressure from students, with the respective Deans and department chairmen serving as buffers and as transmitters of the comments of the readers.

The difficulties of trying to prepare for comprehensives were frequently mentioned, but one student pointed out that comprehensives (and the oral examination on the dissertation) "were strong influences of quality requirements in the degree program and probably the most meaningful way I found of unifying a variety of courses which, on a parttime basis, were strung out over a period of years." This view seems to reflect quite accurately the intent of the faculty in establishing a rigid system of examinations for a largely parttime student body. Recent changes in the comprehensive examination requirements are, at least in part, a reflection of an increasing number of fulltime students and of fulltime faculty.

The meeting of the proficiency levels expected in the tool requirements apparently engendered considerable frustration. Even when the University moved from language tool requirements to an optional use of various quantitative tools, there remained a feeling that these were hurdles somehow to be met rather than, as is the theoretical intent, tools of research to be used. As would be anticipated, the substitution of quantitative tools was hailed by some graduates as "realistic" and deplored by others who favored language requirements for any doctor of philosophy degree. Probably the most telling criticism in relation to tool requirements came from graduates in the social sciences who found the faculty disinterested in and unwilling to use the quantitative and behavioral tools which had become so much a part of the social sciences. Thus while quantitative tools were authorized, the integration of these tools into the research processes in some fields was not encouraged.

What constitutes an acceptable dissertation topic? And what constitutes adequate supervision of doctoral research? Consensus on answers to these questions does not exist in the faculty and our graduates reflect similar lack of agreement. For every student who believed that doctoral research which was job-related was a decided advantage another student deplored the narrow and pragmatic focus of much of the research. One student, acknowledging the arguments on both sides, concluded that "my studies and research probably suffered as much as they gained from their directed nature as a result of their being job-related. Creativity gave way to pragmatic practicality." The extent to which job-related research was permitted seems to have varied more with the leadership of each department and school than with the nature of the field of study. As leadership changed, students found substantial changes in expectations and undoubtedly suffered some bewilderment.

Even more decisive in the focus of a specific piece of research was the nature of the "supervision" provided by the faculty. A committee, normally consisting of five persons, was appointed for each doctoral dissertation. In the days of few fulltime faculty, even the chairman of the committee might be a parttime faculty member while nonfaculty specialists were frequently utilized as committee members. In theory, this use of the highly competent manpower resources of the Washington area should yield great benefits. In practice, the time consumed in research and writing often meant that the membership of the original committee had been changed significantly by the time the student had produced a document for oral examination. The highly valued faculty-graduate student research relationship seldom existed. In all honesty most universities would have to admit that with the increased mobility of faculty today, what was once a problem peculiar to the parttime student has been extended to the fulltime student as well. The scarcity of library resources and research facilities on campus also tended to put the student very much "on his own." Fortunately, tremendous research resources and facilities do exist in the Washington area and the mature student could, and did, make extensive use of them.

In recent years, all dissertation committees contain at least a core of fulltime faculty and the chairman normally is from the fulltime faculty. While the library resources and facilities on the campus have been greatly expanded, they are not expected to meet the needs of doctoral research. Research laboratories and equipment have been added for some fields but much remains to be done before the campus can become a significant center for the research activity of the doctoral student. The University is not unusual in this respect since much of the non-science research is not campus oriented today. Our Washington location continues to offer unique research opportunities to our doctoral students.

Faculty and student-faculty relationships

Doctoral level work is usually associated with the concept of a graduate student working in close relationship with one or more faculty members who serve as "mentors." Although such a relationship characterized the doctoral work in some fields (for example, philosophy) in the early years of American University's graduate work, the work in the sciences was conducted in government laboratories under the supervision of government employed scientists. The University provided some general supervision but did not attempt to build up a fulltime faculty in the sciences. Under these conditions, the decision to discontinue work in the sciences was, in retrospect, inevitable. The post-World War II growth in students and expansion of programs in the social sciences was not adequately matched by the rate of growth in numbers of fulltime faculty. Reliance on parttime faculty was the normal practice, rather than a limited and selective utilization of the special talents and expertise available in the Washington area. What was the effect on the doctoral programs? And what did the imbalance do to the traditional faculty-graduate student relationship? What, indeed, was the role of the fulltime faculty?

To the graduate student of the 1940's and 1950's, the fulltime faculty were "excellent," "dedicated," "well-qualified," but obviously overburdened with the teaching loads and "administrative trivia." The graduates of the 1960's echoed these favorable views of the quality of teaching but made fewer references to heavy burdens on the faculty. These burdens do still exist but perhaps the sharing of the loads by larger numbers of faculty have reduced somewhat the "visibility" of the burden to the graduate student. There were comments in the later period that the faculty seemed to give a disproportionate amount of its time and attention to undergraduate students and programs, but the most negative reactions came from students who felt that the faculty in some areas had failed to keep up with the developments in their professional fields.

One recurring complaint of graduates during the 1950's and 1960's was that the faculty could not or did not provide adequate time for counseling and supervision. Yet other students who completed degrees during this same period commented favorably on the availability of the faculty and their willingness to be of assistance to the student. In only a few instances did the student feel he had been poorly advised. The limited nature and the infrequency of informal contacts were often noted with regret.

Differences were apparent in what the various departments and schools as well as individual faculty members considered to be their responsibilities to the doctoral student. Within one department, for example, were both the recent graduate who stated that "In all candidness, I never felt that the faculty was particularly interested in developing a close professional relationship with its graduate students" and another graduate of the same period who "benefitted . . . greatly" from the "quite close" faculty-student relations.

The vast majority of the comments of the graduates on student-faculty relationships were sincere tributes to the faculty. One student, with a substantial basis for comparison, called the A.U. faculty "the most helpful one with which I have worked on any of my four degrees." Another stated that the faculty was "more accessible and friendlier" with "more genuine interest shown in me and my work" than in over two years at another institution. The personal interest of the faculty in the student was one of the very favorable impressions reported by the graduates. The expectation of the parttime student may have been such that the "friendliness" and "interest" of the faculty came as a surprise.

One portion of the questionnaire requested the graduates to indicate "the faculty members you most remember." In response to this, 192 faculty (including 88 members of the parttime faculty) were recalled as highly valued teachers, counsellors, research supervisors, and, yes, even administrators. Listed below in alphabetical order are the 27 faculty who were mentioned by five or more graduates. The years they were or have been members of the faculty are also given along with the most recent position at American.

Adkins, Robert, Associate Professor, Education (1961-66)
Baily, Nathan, Professor and Dean, School of Business Administration (1946-)
Brandenburg, David, Professor and Chairman, History (1948-)
Collier, Frank, Professor, Philosophy (1914-36)
Correll, Ernst, Professor Emeritus, Economics (1929-)
Davis, Harold E., University Professor, History and School of International Service (1947-)
Devor, John, Professor, Education (1956-)

Ekirch, Arthur, Professor, History (1947-65)
Hattery, Lowell, Professor, School of Government and Public Administration (1948-)
Lerche, Charles O., Professor and Dean, School of International Service (1959-66)
Lorimer, Frank, Professor Emeritus, Sociology (1939-)
Mann, Fritz Karl, Professor Emeritus, Economics (1936-)
Piquet, Howard, Adjunct Professor, Economics (1934-56)
Photias, Nikos, Professor and Associate Dean, School of Business Administration (1955-)
Posner, Ernst, Professor Emeritus, History (1939-)
Potter, Pitman, Professor Emeritus, International Relations and Organization (1944-)
Robinson, Edgar, Professor, School of Government and Public Administration (1953-)
Reno, William, Professor, Government (1948-53)
Roth, Harold, Professor, School of Government and Public Administration (1946-)
Said, Abdul A., Professor, School of International Service (1957-)
Seckler-Hudson, Catheryn, Professor and Dean, School of Government and Public Administration (1933-63)
Sharp, Samuel L., Professor, School of International Service (1951-)
Smith, John H., Professor and Co-Chairman, Statistics (1947-)
Ulmer, Melville, Professor, Economics (1950-61)
Van der Slice, Austin, Professor and Chairman, Sociology (1946-)
Weitzman, Ellis, Professor and Chairman, Psychology (1946-67)
Wess, Harold, Professor Emeritus, School of Business Administration (1953-)

Four of this group—Professors Collier, Lerche, Seckler-Hudson, and Weitzman—are no longer living. Professors Adkins, Ekirch, Reno and Ulmer are with other universities or in other positions. Professor Piquet, the only parttime faculty member, although no longer teaching, continues to serve as Senior Specialist in International Economics with the Legislative Reference Service, Library of Congress. Professors Correll, Lorimer, Mann, Posner, Potter and Wess have retired and, as indicated, hold Emeritus rank at the University. The remaining twelve are still members of the teaching faculty or hold administrative positions at American University.

Special note must be made of the fact that forty students named Dr. Catheryn Seckler-Hudson as a "most remembered" faculty member. Dr. Seckler-Hudson was the personification of the University's work in government and public administration over a thirty year period and her interest in and helpfulness to students as well as her excellent teaching made a lasting impact on her students. Only two other faculty were mentioned by more than fifteen of the graduates, and each had worked with students in several capacities. Dr. Ernst Correll, whose primary field was economics, also worked with students in history and sociology and, in addition, served as Graduate Language Examiner for a number of years. Dr. Ernst Posner is affectionately remembered by students in history and by those in other fields who received the benefit of his guidance and interest when he served as Dean of the Graduate School.

The expressions of appreciation of and affection for these and other faculty members were not unexpected. But the frequency and the obvious sincerity of the vast majority of the comments were a reassuring by-product of the survey of the University's doctoral graduates.

Inevitably, a few students reported unpleasant experiences, generally related to changes in requirements or problems arising from the administration of programs rather than to faculty-student relations as such. Although the number of such experiences reported was small, to keep the proper perspective we should keep in mind that these were the reactions of students who *did* complete their degrees in spite of whatever difficulties they encountered. Were the students who did *not* complete their degrees surveyed, the incidence of unsatisfactory student-faculty relationships might well be substantially higher.

Some graduates expressed regret at the scarcity of "stars" on the faculty. Others stated they could not remember having had a poor teacher. The lack of fulltime faculty in various specialties - and, at times, in basic areas - did present problems to the student. The nature of these problems were mentioned earlier in connection with comprehensive examinations, dissertation committees and supervision of research.

The counterpart of a small fulltime faculty was the reliance on large numbers of parttime faculty. Comments of graduates show clearly that any analysis or interpretation of the nature of our doctoral programs, at least through the 1950's, must come to grips with the fact that a largely parttime student body studied and worked under a small fulltime faculty supplemented by large numbers of parttime faculty. For this reason the doctoral program differed in many aspects from any traditional concept of doctoral study. But first, what were the graduate's reactions to the parttime faculty?

No universally applicable conclusions concerning parttime faculty can be advanced on the basis of these reactions. The individuals involved can be evaluated only as individuals. Yet even without requests for comments on the overall pattern of the use of parttime faculty and its general role in the doctoral programs, the graduates expressed significant and important opinions on these questions. Comments from several questionnaires are illustrative of the major points. On the positive side were these observations:

"... excellent faculty ... particularly the mixture of parttime faculty who brought stimulating ideas from their fulltime work."

The most favorable impression was "contact with top grade public officials through their lectures and seminars."

"A strong point is the employment of non-academic experts in the area of the student's dissertation topic as advisors who can supplement the resources of the University's faculty."

"The program depended heavily on parttime faculty drawn from government; I thought the faculty was first-class, and superior to the fulltime faculty."

"I am ... grateful for the variety of professors which the unique location of AU enabled it to have. One did not pursue his graduate work with one or two professors who, in spite of their qualifications and abilities, could not help but develop patterns of thinking and methodology that prove to be limited in time, rather one was able to work with a variety of professors, many of whom were not only ranking academicians, but also practitioners of the subjects they taught. Many of these individuals were able to produce present-day illustrations of the theories they taught and in the end this makes the entire educational experience more meaningful."

The negative responses included:

"... too many teachers were not permanently attached to the university."

"Too many parttime faculty are teaching too many parttime students. The result is a lack of cohesion and a serious lack of any common esprit de corps. There is a definite advantage in utilizing practicing Government administrators to teach... but on the whole I can't say the faculty thus employed was particularly inspiring as pedagogues."

The greatest weakness was "the extreme number of parttime faculty."

Weaknesses were "scarcity of prominent fulltime professors; too many parttime lecturers who were neither an integral 'part' of the University nor academically oriented."

A weakness was the "fatigue and unpreparedness of both faculty and students in parttime situation."

The "use of high-level civil servants on faculty and dissertation committees tends to impose undue restraints upon real learning and research."

A weakness was the "tendency to select (and sometimes retain) some instructors on basis of title in Government rather than capacity as a teacher."

Many graduates had a mixed reaction to the parttime faculty and their role:

"The strength (and at the same time a weakness) was the availability of top level lecturers from the Washington ... Community, but these personnel were of a transient rather than a permanent character," making planning a program and taking of comprehensives difficult.

"The quality of teaching [by parttime faculty] varied from inspired to pedestrian."

"The parttime people were excellent, but suffered from the well-known difficulties of parttime professors .... [they] should be encouraged to stay by providing more identification with the University over long periods."

The quality of the adjunct professors was excellent but as parttime faculty there was little contact —"if possible, should add 'conference time' and improve seminar programs to strengthen student-faculty contact."

"The problem ... is too many parttimers. They add strength to teaching, but are not available for counseling. This throws a great administrative/counseling burden on the fulltimers, with the result that there is little real counseling."

"... too many parttime faculty members, despite qualifications ...".

Counselling with adjunct faculty "was a minor problem on occasion. I must add with haste, however, that the opportunity of having classes under people who were actively working in their field represented a very real advantage."

To summarize, our graduates appreciated the contribution of the well-qualified parttime faculty drawn from the Washington community but they quite correctly felt that the proportion of parttime faculty was too large. The resulting problems of little or no contact outside of class, lack of continuity in program planning and in research supervision were considered by many to be serious obstacles to satisfactory doctoral study.

Fulltime and parttime study

What were the reactions of American University students to their experience in fulltime or parttime study? As already indicated, parttime students far outnumbered fulltime students. Of the 195 who responded in the questionnaire to the item on attendance, 148 (75%) took their doctoral work parttime, 25 went fulltime and 22 attended both fulltime and parttime.

The graduates who attended fulltime were almost unanimous in the opinion that this was the best way to complete doctoral work successfully and effectively. The views ranged from that of the student who stated that only fulltime study should be permitted at the doctoral level, to those who believed that at least one year of fulltime work was essential. One student argued for fulltime attendance during course work with the statement that "there is no substitute for being a student *exclusively*." Another pointed out that in preparing for comprehensives and in research, the fulltime student has a distinct advantage.

A student who had begun his work as a fulltime student found that this status gave him a chance to get " to know and be known" by members of the fulltime faculty. When he found it impossible to continue fulltime, the faculty encouraged him to pursue his program on a parttime basis and, in his words, "I found that many of my studies took on new meaning when I became a parttime student . . . In many ways . . . I got more from my doctoral studies during this period."

It is difficult, if not impossible, to determine how many of our parttime doctoral students had completed master's level work on a fulltime basis and how many had only a parttime experience at the graduate level. This is particularly true in relation to the many students who had earned masters' degrees before coming to American University. In other words, the student's basis for the comparisons and for the judgements about parttime study expressed in this survey is uncertain. But regardless of the basis, the responses show that these students do have wide-ranging reactions to the effect of parttime enrollment on their doctoral studies.

Before proceeding further with the evaluative comments drawn from the responses of American University doctoral students, perhaps some more broadly based examination of the assumption that fulltime study is the only academically respectable way to complete a doctorate would be in order. Evidence from many studies shows that for fields outside the sciences the time which elapses in the process of completing a doctorate normally covers more years than that which would be required to complete the formal study and the research. For example, a report on a survey of the 1950-54 recipients of doctorates at Harvard[24] shows that while three to four years was considered "par" for completion of the doctorate by 80% of those in the social sciences,[25] the actual number of years between admission to and completion of the Ph.D. was reported by the 500 social scientists in the study as follows:[26]

Number of years	Percent of respondents
2 years	1
3 years	7
4 years	27
5 years	20
6 years	17
7 years	8
8-10 years	6
Over 10 years	14

Thus 65% of the 500 social science graduates took five or more years to complete the doctorate. Various reasons were given for the delays which were encountered[27] but no specific data is presented on the number who were employed fulltime prior to completion of the degree. Employment as a Teaching Fellow or Tutor at Harvard prolonged the period of study for a "large percentage of respondents in all areas" with 8% in the social sciences reporting a "considerable" delay and 17% "a bit" of a delay.[28] J. P. Elder, then Dean of the Graduate School of Arts and Sciences at Harvard, had this comment on the employment of Teaching Fellows:

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[24] "A Criticism of the Graduate School of Arts and Sciences in Harvard University and Radcliffe College from Those Who Took the Ph D. at these Institutions Between 1950 and 1954." Introduction by J.P. Elder, Dean, Graduate School of Arts and Sciences, Harvard University, Spring 1968.

[25] *Ibid.*, p. 12.

[26] *Ibid.*, Appendix II, p. 34.

[27] See *ibid.*, pp. 12-14 and 39-42.

> While financial pressure surely induced many to take up such work, it is significant that most respondents, far from regretting such employment, consider this experience as useful or even indispensable for future teaching, and they look back on their positions as opportunities which made their years of graduate school more rewarding. Such an attitude seems to be based on these factors:
>
> a) Teaching Fellows inevitably have closer contact with the faculty than most students (in itself a commentary on student-faculty relations in the big departments).
> b) They thus receive training in teaching.
> c) They are thus able to break the monotony of study, and of continually being assessed, by doing something active and worthwhile.[29]

With the exception of the first point, the benefits ascribed to experience in the intended career are equally valid for students in the many disciplines needed in public service.

Without belaboring the point, it would appear that, at least in the social sciences, the fulltime status of a student is not likely to continue from admission to completion of the degree. The major identifiable period of "fulltimeness" is that required for the formal course work - with, of course, the inestimable values stemming from the varied faculty-student contacts which may accrue. Beyond this point, that is, at the research and dissertation stages, the actual differences between the so-called fulltime and parttime programs of doctoral study may be much smaller than is traditionally thought to be the case. To return specifically to American University graduates, how do those who completed doctoral programs on a parttime basis now evaluate that experience?

A few graduates reported that the fact of parttime study was "unrelated" or had "no effect" on their doctoral studies. In a perceptive comment one student added: "I might point out that at an urban university there is a sense in which everyone is parttime. There is not, in fact, any real sense of 'department'," apparently meaning by this that a sense of a community of interests between faculty and students which is based on a shared concern for and commitment to a specific discipline is difficult to achieve in any urban institution. The parttime students appreciated the fact that they were taught "as self-motivated, responsible adults" and pointed out that while it depends on the student, motivation can in large part compensate for what might ordinarily be considered "lack of time." One graduate reminds us that in the opportunity for parttime study "really we are maximizing talent, not creating it." Still another graduate, having studied both fulltime and parttime, summed up his experience by stating that he "could not detect any noticeable difference in the quality of my work."

Those graduates who took the position that parttime study was "more practicable and effective" generally related the "plus" to the constant and valuable interchange between work and study. Thus, for one student, "my fulltime employment provided a laboratory for testing theory gained in my parttime studies," and for another "the work experience greatly enhanced the value of my studies." A student who reported "no regrets" for having attended parttime added another facet with the statement that friends who had taken doctoral work fulltime had found that they were required to take so many courses concurrently that they had "little opportunity to consider the implications of the materials."

The majority of the graduates took a "middle ground" position of uncertainty as to the effect of parttime study ("but there was no other choice" was the typical comment). Or they cited specific disadvantages and weighed these against the desired objectives. Such opinions included the following:

> "Parttime is a dreadful way to go to school—but real-life problems lead to real-life dissertation topics."
>
> Parttime meant a lot of "cramming" for comprehensives but "did not at all harm my studies and achievement."
>
> Parttime meant "less contact with faculty" and put the student under great pressure - but there were the advantages of no financial burden, the relationship of research to field work, and seriousness as a student.
>
> Parttime status "slowed completion of the work, but made it more meaningful."
>
> Parttime study required "family patience and cooperation and demanded careful planning" but was more "interesting" as a "practicing administrator and planner."
>
> Parttime "limited the extent to which one could read in his field." On the other hand, the working situation was "undoubtedly an asset in doctoral research."

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[28] *Ibid.*, p. 13.
[29] *Idem.*

> Lack of faculty contact is "a more or less built-in feature of a parttime degree program and [I] do *not* believe it to be a fatal deficiency—after all the employed student is meeting and working with many other stimulating and effective persons in his work environment."
>
> Parttime study resulted in "such unremitting pressure" that I performed both job and study "in a manner far superior to that had I been attempting only one or the other." (But he would never try both at his age now).

Other problems mentioned included job responsibilities which meant as much as a year from courses and other program requirements (and "also resulted in a lack of sleep"), the handicaps in conducting research in the evening and on weekends when access to libraries and other resources was severely limited, the problems of coordinating research with dissertation committees, and the obstacles to maintaining continuity in programs.

The graduates who found parttime study an unsatisfactory experience cited the problems already referred to but did not find sufficient compensating factors to offset or minimize the problems. The views ranged from the flat assertion "never again" to the belief that at least some fulltime study should be required of all doctoral students. Typical of these views were the statements that doctoral work was "not effective or satisfying on a parttime basis"; parttime study "diluted my achievement somewhat and was a difficult burden;" and parttime was a "poor way to concentrate on serious work toward a degree." Another student summed up the experience by saying that "at times there was a dissociation from the academic community that was unfortunate. On the whole, it was probably not an entirely satisfactory experience." Failure to find the complementary support of study which some students found in their employment was reflected in the statement that employment was more of a hindrance than a help: "I think I earned my degree in spite of rather than because of it." For another student fulltime employment "including extended official travel made doctoral work difficult, extended it, was painful . . . . I would not do doctoral work again on [an] entirely parttime basis." Still another graduate concluded that "in my case I feel I had too much parttime enrollment. If I could do it over I would put in more fulltime. Also, I would certainly get the degree earlier in life." While appreciating the opportunity for parttime study, one student found it "not an optimal method [and] exceedingly difficult" while another concluded that "looking over my experience I believe that graduate work should be accomplished on a fulltime basis."

Perhaps the most serious criticism—with its many implications—came in this statement:

> "My parttime status hurt. It deprived me of the enrichment and the development I feel I would have known under a fulltime program. Looking back, I feel that I would have been better educated, and further along in terms of my career, had I attended fulltime."

With respect to the span of time necessary in the case of parttime study, the problems in continuity of program, of "cramming" for comprehensives, and of little opportunity for "sustained effort" in research brought divergent views on the enforcement of time limitations. One student, who would not recommend parttime study to anyone, believes that if parttime study is permitted, students should have "firm schedules . . . planned with close monitoring and enforcement of deadlines by assigned faculty members." On the other hand, doubts about rigid time limits were advanced by another student in this comment:

> "In a community where many of the students are parents and hold fulltime jobs, it appears to me that the programs are bound to be extended. From the viewpoint of University housekeeping, the time period involved may be important. Time may also be an important factor with respect to using the degree for job advancement, particularly in the teaching fields. But, personally, I am not inclined to correlate time with advanced study or learning."

Several students suggested that well qualified students should be encouraged to speed up progress toward the degree by fellowships given to complete the research. Another recommended that the University make a concerted effort to secure released time from their jobs for the most promising students.

Perhaps the best way to conclude this section on the merits of fulltime and parttime doctoral study would be to present two opinions, the first from one of our recent graduates, including some specific recommendations:

> "I think that I conclude that some fulltime enrollment in a major university is a desirable and perhaps necessary component of an effective doctoral program, yet I also believe that study concurrent with employment is equally necessary and desirable. Frankly I do not believe that it would be either necessary or desirable for the American University to require that its doctoral students take a year or more in residence on American's campus . . . . But I think that it would be very useful if American could work out some kind of reciprocal arrangements at the graduate level (similar to—but the reverse of—the undergraduate Washington Semester program) which would permit its Ph. D. candidates to have one or two semesters on a major, ***non-Washington*** university campus. (Particularly for Federal Government personnel, I think it is essential that some, but not all, of our training is undertaken out of town)."

The second statement sums up very effectively the experience of another graduate in parttime study:

> Spread over seven years, parttime study "was quite discouraging at times." There was a considerable contrast in " 'school spirit' " between A.U. and the master's university "possibly due to the lack of fulltime commitment and the urban rather 'hard sell' approach to the whole endeavor at A.U. Somewhere along the line, though, I did acquire a concern to 'reach for the stars.' This internalizing of inspiration—do-it-yourself drive—is the essential result of the program and surely was my experience." Parttime study was difficult but " 'doable' "—work and study complemented each other and "my total experience, at work *and* at A.U., was richer than a straight academic experience."

The experience at American University

Asked for the most favorable and most unfavorable impressions of AU, many of the respondents indicated they had covered the major points in their comments on other questions. To avoid unduly repeating what has been said earlier, the favorable impressions centered on the well-liked, hardworking and helpful faculty, the treatment of students as mature individuals, the availability of evening programs, and the flexibility of programs to meet the needs of individual students. Others mentioned "the wonderful graduation ceremony," the "painless streamlined registration procedures," "the beautiful uptown campus," the "growth and achievement" of the University, and even the "opportunity to type comps . . . darned decent."

A few graduates quite candidly characterized their impressions with such words or phrases as "neutral," and "no strong impressions, favorable or unfavorable." The student who stated "I have few impressions at all. I never felt a real part of the institution" quite obviously had not been pleased with his experience which he found was "not the type of student-mentor relationship that exists in other graduate departments."

Some of the negative impressions have already been identified—the relatively small number of fulltime faculty and the resulting failure to find the hoped-for faculty-graduate student relationship, the lack of continuity in programs, the presence of some poorly qualified students, and the lack of "real academic atmosphere." But the overwhelming weight of the unfavorable impressions centered on the poor library and research facilities and the Downtown Center buildings. The location was conceded to be convenient for many of the students employed in government but the classrooms and the buildings at 19th and F left much to be desired. One graduate called the buildings "dangerous old firetraps" and added that "the roof leaked on one of these, 1905 F, over 100 years ago when it was Signal Corps headquarters for most of the Civil War." Another student mentioned the "depressing" downtown physical plant but added that he did not believe that physical facilities were "really important."

If one theme predominated throughout the responses to the questionnaire, it was appreciation for the opportunity to work on a doctorate while fully employed. Just how many students came to Washington and secured positions with the specific intention of pursuing graduate work cannot be determined. Once in Washington, the programs available to parttime students at the several universities varied at different points in time. To a certain extent, the graduate students at American University were self-selected. While the admission requirements did assure some selectivity on the part of the University, the parttime student made the basic choice of university from the programs available in the area.

The attrition rate among students admitted to doctoral programs at universities throughout the country is high, especially in the social sciences and the humanities. For the parttime student, the chances of successful completion of the degree are even smaller. When this fact is combined with the lack of any conclusive relationship between undergraduate performance and subsequent success in graduate school, the University's relatively flexible admission policy was understandable although not entirely defensible. Too many students with relatively low undergraduate records may have been admitted on the basis of maturity, motivation and work experience but these admission decisions proved in many cases to be justified. Needless to say, the factors which contribute to successful doctoral study by the parttime student are not readily quantified.

What reasons were given by our doctoral graduates for their selection of American University? For the fulltime students, the chief determinants were the Washington location ("the logical place to study government"), financial assistance awarded by the University or other sources, and the opportunity to study under specific faculty members. One fulltime student who wanted to remain in Washington and who withdrew his applications to other institutions when offered an assistantship at AU, says in retrospect, that "I now marvel at the illogicalness of my decision, though fortunately things worked out well."

The parttime student, although limited to the Washington area, seems to have looked closely at the comparable parttime programs offered by other area institutions. Some of these students cited the variety of course offerings, the "good reputation in the field," the "clear picture of what was necessary for completion of the course," specific faculty members under whom they could study, and personal interest shown in their application as major factors in their choice. One student who had gotten his master's at an area institution, feeling that he wanted new exposures and that AU was the best for his purpose, added "In retrospect, I feel that my . . . choice was correct and could have been made on wider grounds." One student made his position clear when he stated "I had no other preferences, nor have I had regrets." Another graduate candidly reported that AU was his choice, "not because it was first class, but because it seemed to offer the best . . . program in the Washington area." One less than enthusiastic reply said simply "Both AU and I were in Washington at the same time."

Most of the graduates did not reply specifically to the second part of the question—i.e., if AU was not their first choice, where would they have preferred to take doctoral work. Some of those who did respond qualified the answers, as, for example, "Would have preferred Harvard, but AU best in the field in Washington;" a prestige Ivy League school but that was "not practical;" "California, Wisconsin, Columbia were alternatives in that order, had I had money and been single;" and, Harvard or Ohio State but I "would probably have not been accepted at either of these." One student who would have preferred the University of Chicago but "couldn't afford it," moved to Washington to study and offered this explanation: "A.U. was the only place where I could be fairly certain of financing, either from the University or from a decent position in the government." Overall very few regrets were expressed in the actual choice of A.U. Reality, as one student put it, has a very leavening effect on such "pipe dreams" as "Harvard or University of California at Berkeley with $9000 per year fellowship."

Employment of doctoral graduates

There is a great deal of discussion in the educational world today of "outcomes." This can be variously defined but, in a very general way, the concern is with the effect which a particular educational program (at any level) has on the students involved. This survey of the doctoral graduates of American University was not designed to provide the in-depth data which many of the current "outcomes" studies are compiling. But the information which was gathered concerning the occupations of the doctoral graduates does throw some light on "outcomes" in at least one limited sense.

The original questionnaire, the follow-up return postcard to those who had not responded, and additional extensive searching of available biographical and other professional listings resulted in what we consider to be reasonably accurate occupational information for 513 graduates—85.6% of the 599 believed to be still living. In addition, and included as a separate group in the tabulations which follow (see p. 29), at least minimal biographical data were secured on some 66 of the graduates who are no longer living.

The table below gives the occupational distribution by type of employer with some sub-classification by type of activity for those in higher education. A table showing the same breakdown by fields of study is included in Appendix A—Table VI while the biographical sketches (Appendix C) give the specific positions as of the 1966-67 period, updated insofar as possible through the summer of 1968. Persons who have retired are included in the category of their primary occupation prior to retirement.

Table 6

Distribution of Known Occupations of Doctoral Graduates 1916-1966 by Type of Employer

	#	**% of known Occupations**
College and University Positions		
Teaching	179	34.9
Administration	25	4.9
Research	11	2.1
Sub-total	215	41.9
Other Education	13	2.5
Federal, State, Local Government	178	34.7
Foreign Governments and International Organizations	28	5.5
Professional Services	21	4.1
Private (non-profit) Organizations, Associations, Foundations	22	4.3
Business and Industry	34	6.6
Other	2	.4
Total	513	100.0

It is clear that the prevailing impression—i.e., that American University functions in doctoral work chiefly as a supplier of government officials—is not true. It was perhaps more nearly accurate in the past than in recent years but our early graduates also included many individuals who entered academic pursuits.

Employed in higher education

If one assumes that those engaged in higher education may have responded to the questionnaire more readily than graduates who entered other fields, and that the other sources relied on for occupational information were "partial" to academic pursuits, there may well be some bias in the resulting figures. Nevertheless, on the basis of the information available on the 513 graduates included in the table above we find that 20 out of 30 in political science (66.7%) and 30 out of 51 (58.8%) in history are in higher education. The other fields with more than half of the graduates in academic work are international relations with 54 out of 92 (58.7%) and sociology with 14 out of 26 (53.8%). Some of the fields with only a few graduates, (for example, statistics, area studies, and religion) or with only a few graduates for whom we have occupational data (biology), also show a large proportion in teaching or related work. Of the doctorates in education, 16 out of 37 are in higher education. Seven of the sixteen doctoral graduates in business administration, 14 of 49 in psychology, 27 of 86 in economics, and 20 of 69 in public administration are also in higher education. Overall, 215 or 41.9% of the 513 for whom we have information on occupations, are in teaching, administration, or research associated with colleges and universities. Perhaps it would be appropriate to add that only fourteen of these graduates are with the fulltime American University faculty and that two of these hold emeritus status. Whether considered in relation to the total number of graduates who have positions in higher education or in relation to the size of the American University faculty, it is apparent that in-breeding is not a general characteristic.

Today our doctoral graduates are associated with universities and colleges throughout the nation and, indeed, in several other areas of the world. From the information available, we find that 204 of our graduates are with colleges and universities located in 39 states and in the District of Columbia and Puerto Rico. Eleven others are with ten institutions in eight countries, namely, Canada, India, Iran, Iraq, Korea, Lebanon, the Philippines and Thailand. The roster of these institutions includes virtually every type of institution—large private and state universities, four year colleges, both state and private, technological institutes, community colleges and junior colleges. Several presidents, deans and other administrative officials are among the graduates. The many graduates who have taught or who now are teaching on a parttime basis are not included in any of the figures on employment in higher education.

The 1960-66 graduates

The present location of the graduates of the years 1960 through 1966 provides a substantial base for an examination of the types of institutions in which they began their post-doctoral teaching careers although there has been, of course, some mobility since receipt of the degree. Among the many factors which might have some influence on the type of teaching institution selected, age at the time the degree was conferred is the only one readily available. Even this needs to be used cautiously inasmuch as the point at which the degree was received may not mark the initial teaching experience but instead may occur at some mid-career point. With these conditions in mind, what does a review of the 1960 through 1966 graduates reveal?

Of the 275 doctorates awarded in this seven year period, the occupations of 30 are not known, 130 are in non-academic careers and 115 are with colleges and universities. For the group now employed in higher education the average age at conferral of the doctorate was 38.3 years and the range of ages was from 25 to 60. By field, the lowest average ages were in political science (32.9), psychology (35.3) and international relations and area studies (35.9). At the upper averages were economics (44.9), business administration (44.4), and sociology (43.0).

By geographic region and by type of control and size of institution, Table 7, p. 25 shows the pattern of employment of 109 of these graduates in 83 different colleges and universities. The six graduates employed at foreign institutions are not included in this table.

From this tabulation, several observations are possible. Sixty-four (58.7%) of this group of graduates are with 53 publicly controlled institutions and 45 (41.3%) are teaching or associated with 30 private colleges or universities. Almost equal numbers of graduates are with institutions enrolling less than 5000 students (41 graduates in 36 colleges) and with those enrolling over 10,000 students (43 individuals with 25 institutions). Of the other graduates, twenty are with 18 institutions in the 5,000-10,000 enrollment range and the remaining five are with units of an educational system for which separate enrollment data was not available.

Perhaps the most significant fact which emerges is that nearly half of the 1960-66 graduates are with universities which offer the doctorate (category IV on the chart) and that an additional 25% are with institutions offering the master's degree. Thus about one-fourth (28) are with other types of institutions, specifically, 4 with junior colleges, 19 with four year colleges, and five with branches of public institutions where the highest level of work offered at that specific location was not indicated in the Office of Education *Directory*. Geographically, the Middle States region is the location for 42 graduates while 29 are in the vast North Central region and 23 in the Southern region. Eight are teaching in the Western and the Northwest regions and seven are in the Eastern region.

Age at receipt of the doctorate appears to have had some effect on the type of institution in which the graduates elected to teach. The average age at graduation of those now associated with junior colleges was 43, with private four year liberal arts colleges 41, while those with public four year colleges averaged only 34. For the public and private sub-groups of the remaining two broad categories (III and IV on the table) the average ages were 36 (public) and 43 (private) in group III institutions and 39 (public) and 38 (private) in doctorate granting universities. Of the thirty-five graduates who received their degrees before the age of 35, twenty-two are with public institutions and thirteen with private institutions. Eighteen of these graduates are with universities offering the doctorate, eight each in publicly controlled and privately controlled institutions with enrollments of over 10,000. On the other hand, four of the eleven graduates who were over fifty when the degree was conferred are also with doctorate granting institutions in this same enrollment category.

At the risk of over-simplification, the "typical" 1960-66 graduate employed in higher education might be described as being located in either the Middle States or the North Central regions and being associated with a publicly controlled institution with an enrollment of over 10,000 which offers work through the doctoral level. In point of fact, although approximately half of the graduates were with universities offering work through the doctorate, and an overwhelming majority of these were universities at the 10,000 or more enrollment level, the graduates with private institutions slightly outnumbered those with public institutions in this specific category.

This brief outline of the 1960-66 graduates does not, of course, fully describe the role of American University graduates in academic pursuits. It merely indicates recent trends and suggests that placement of graduates in higher education will be a growing and increasingly important responsibility for American University and its faculty members. One of our greatest assets in the performance of this function will be the performance and reputation of the graduates who have entered the academic world.

Table 7

Employment in Higher Education, 1960-1966 Doctoral Graduates By Type of Institution, Enrollment, Control and Geographic Region*

	I	II				III						IV						Not Classified
(a)	Junior C.	4 Year Colleges				Master's Degree						Doctorate						
(b)	Under 5000	Under 5000		5000-10000		Under 5000		5000-10000		Over 10000		Under 5000		5000-10000		Over 10000		
(c)	Pub	Pub	Priv	Pub	Priv	Pub	Priv	Pub	Priv	Pub	Priv	Pub	Priv	Pub	Priv	Pub	Priv	Pub
(d)	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B
Region																		
Eastern - - - -	1/1		2/2				1/1	1/1									1/2	
Mid-Atlantic	2/3	2/2		1/1		4/6		2/2						3/5	3/3	1/5	4/15	
North Central		1/1	1/1	1/1		1/1	4/5	3/3		2/2		1/1		1/1		9/10	2/2	1/1
Southern - - -		2/2	7/8			3/3	2/2	2/2		1/1				1/1		1/1		2/3
Western & Northwest - -		1/1										1/1				1/1	3/4	1/1

*Classification of institutions (I to IV according to highest degree offered), enrollment, and type of control based on the Office of Education publication, *Education Directory, 1966-67*, Part 3, Higher Education, U.S. Government Printing Office, Washington, D.C.

(a) Type of institution—Highest degree offered
(b) Enrollment
(c) Type of control—Pub - Public; Priv - Private
(d) # institutions/# faculty

A/B = A is number of different institutions
B is number of doctoral graduates

Region—based on regional accrediting association geographical organization

Comparison with pre-1960 graduates

There are 95 pre-1960 American University doctoral graduates who are now in positions in higher education (or who have retired from such positions) in the United States and Puerto Rico. Five other graduates are with foreign institutions. Since complete job histories are not available, any direct comparisons between the pre-1960 graduates and the later graduates with respect to initial or early teaching positions is not feasible. We can, however, focus on present geographic locations and types of institutions for the two groups with the objective of identifying any significant—or perhaps just interesting—variations in the patterns of employment. The two tables which follow give the basic summary data in terms of a) the number of faculty positions held by the graduates and b) the colleges and universities in which the graduates are employed.

The pre-1960 and the post-1960 graduates show a surprising similarity in broad patterns of employment in higher education. The two points which do stand out are the increasing proportion associated with public institutions and a movement away from the earlier heavy concentration in the Middle States area with the North Central region attracting a substantial portion of our recent graduates. Both of these trends are re-enforced by the institutional data (part b) which show that public institutions account for nearly 64% of the colleges and universities in which the 1960-66 graduates are teaching compared to 52% for the pre-1960 graduates. Nearly one-third of the employing institutions of the recent graduates were in the North Central area with the Middle Atlantic and the Southern regions each accounting for approximately one-fourth.

Table 8
a) Comparison of Pre-1960 and 1960-66 Doctoral Graduates Employed in Higher Education[30]

	Pre-1960		1960-1966		Total	
	#	%	#	%	#	%
# of individuals						
with public institutions	50	52.6	64	58.7	114	55.9
with private institutions	45	47.4	45	41.3	90	44.1
with institutions enrolling						
Below 5,000	34	35.8	41	37.6	75	36.8
5,000- 10,000	13	13.7	20	18.3	33	16.2
Over 10,000	41	43.1	43	39.5	84	41.1
Not classified	7	7.4	5	4.6	12	5.9
with institution—by highest level of offering						
Junior colleges	2	2.1	4	3.7	6	3.0
4 year colleges	19	20.0	19	17.4	38	18.6
Master's	18	18.9	29	26.6	47	23.0
Doctorate	51	53.7	52	47.7	103	50.5
Not classified	5	5.3	5	4.6	10	4.9
Geographic region						
Eastern	1	1.1	7	6.4	8	3.9
Middle States	48	50.5	42	38.5	90	44.1
North Central	18	18.9	29	26.6	47	23.0
Southern	20	21.1	23	21.1	43	21.1
Western & Northwest	8	8.4	8	7.3	16	7.9

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[30] The basis for the classification of institutions is the same as that used in Table 7, p. 25.

b) Comparison of Institutions of Higher Education in Which Pre-1960 and 1960-66 Doctoral Graduates Are Employed

	Pre-1960		1960-1966		Total-Non duplicating	
# of institutions	#	%	#	%	#	%
Public control	35	52.2	53	63.9	80	59.3
Private control	32	47.8	30	36.1	55	40.7
Enrollment						
Below 5,000	28	41.8	36	43.4	62	45.9
5,000- 10,000	7	10.4	18	21.7	23	17.0
Over 10,000	25	37.3	25	30.1	41	30.4
Not classified	7	10.4	4	4.8	9	6.7
Highest level of offering						
Junior college	2	3.0	3	3.6	5	3.7
4-year college	17	25.4	18	21.7	34	25.2
Master's	16	23.9	26	31.3	40	29.6
Doctorate	27	40.3	24	38.6	49	36.3
Not classified	5	7.5	4	4.8	7	5.2
Geographic Region						
Eastern	1	1.5	6	7.2	7	5.2
Middle Atlantic	25	37.3	22	26.5	40	29.6
North Central	17	25.3	27	32.5	41	30.4
Southern	19	28.4	21	25.3	38	28.1
Western & Northwest	5	7.5	7	8.4	9	6.7

Other education

Secondary education and public school administration dominate the positions held in the "other education" category. The thirteen graduates identified as being in this category are located in eight states and the District of Columbia and in India and include counselors, superintendents, psychologists and teachers.

Public service

As would be expected, a large number of American University doctoral graduates are in public service. State and local governments claim thirteen graduates in six states and the District of Columbia. Foreign governments and international organizations count at least 28 graduates in their service. The phrase "at least" is used advisedly inasmuch as information on our foreign graduates is far from complete. We do know that three ambassadorships and two memberships in national legislative assemblies as well as responsible administrative positions in several nations are held by individuals who have received a doctorate from American University. Among the international organizations, our graduates are with the Organization of American States, the Pan American Health Organization, the Food and Agriculture Organization, the United Nations Economic Commission for Latin America, and the World Bank and International Bank for Reconstruction and Development.

Public service: federal government

American university doctoral graduates are located throughout the many departments and agencies of the federal government. With the legislative branch, including the Legislative Reference Service, are three graduates, the independent agencies and commissions employ 23, one is with the court system, and six graduates are not identified by specific agency. The vast majority, however, are located in the executive departments of the federal government. (See Table VII, Appendix A for a detailed breakdown by departments and agency and by field of doctorate). Of the 131 so employed, 40, or just over 30%, are with the Department of Defense while 24 (18.3%) are with the State Department and an equal number are with the Department of Health, Education and Welfare. The Department of Agriculture (14) and the Department of Commerce (12) account for nearly 20% leaving 17 graduates distributed over seven other departments. Only the Department of Justice is not now represented but the chances are very good that some of our early doctoral graduates in law on whom we do not have biographical data were associated with that department.

Although graduates from almost every field are with the Department of Defense, two fields, public administration with 11 and psychology with 9, account for half of the total. Some military personnel on active duty are included in the departmental figures. Eleven of the 24 with the State Department had taken their work in international relations and area studies and five each came from public administration and economics.

In the Department of Health, Education and Welfare, virtually all fields of study are represented with the largest single group (6) holding doctorates in public administration.

From another viewpoint, we can note the differences among fields of employment in federal public services as well as a broader public service definition including state and local government, foreign governments and international organizations. As shown in the table below, the rates by fields vary widely:

Table 9

Number and Percent of Doctoral Graduates 1916-66 in Public Service, by Field

Doctoral Field	Total # of Known Occupations	Federal #	Federal %	State & Local #	Foreign Govt & Intl Org #	Total in Public Service #	Total in Public Service %
Intl Rel & Area Studies	97	23	23.7	–	7	30	30.9
Economics	86	31	36.0	1	11	43	50.0
History	51	12	23.5	–	1	13	25.5
Psychology	49	12	24.5	6	–	18	36.7
Sociology	26	8	30.8	–	2	10	38.5
Political Science	30	7	23.3	–	–	7	23.3
Public Adm	69	38	55.1	3	2	43	62.3
Business Adm	16	2	12.5	–	–	2	12.5
Education	37	9	24.3	1	2	12	32.4
Science, Math & Statistics	31	18	58.1	1	2	21	67.7
Philosophy & Religion	10	2	20.0	–	–	2	20.0
Law	11	3	27.3	1	1	5	45.5
	513	165	32.2	13	28	206	40.2

In the federal public service and in the total public service the field with the highest proportion of the graduates is, rather surprisingly, science-mathematics with 58% in federal public service and another 10% in other public service. Quite according to expectation, 55% of the graduates in public administration are employed by the federal government and an additional 7% are in other types of public service. With the exceptions of economics (36% federal service and 50% total), law (27% federal and 45% total) and business administration (12.5%, all federal), the remaining fields fall in the 20% to 30% range for employment in federal service with slightly higher proportions in total figures. The relatively large numbers of foreign graduates in international relations and in economics contribute to the differential between the federal and the substantially higher total public service percentage.

In any study of the role of the American University doctoral graduate in public service, one potentially useful facet has not been defined sufficiently to subject it to any analysis. While the positions and titles held by the graduates (insofar as they could be ascertained) have been included in the biographical sketches (Appendix C), this information is not necessarily indicative of, nor descriptive of, the type of work performed. Any future study might well investigate the extent to which our graduates are engaged principally in policy making, administrative, research, informational, or the myriad of other functions performed in the public service today. If any future study of the doctoral graduate of American University is undertaken, some assessment of the actual roles in the public service should, if possible, be included.

Non-profit organizations

The private associations and foundations have drawn twenty-two of our graduates holding the doctorate. The degrees of these graduates were taken in ten different fields, public administration and psychology providing the largest numbers. The non-profit organizations cover a wide range of interests—education, research, philanthropy, religion—and include professional associations and organizations.

Business and industry

Business and industry employ 34 graduates. Of these, 12 took their doctoral work in economics, 7 in business administration and 6 in psychology. The others hold degrees in international relations, history, public administration, education and chemistry. Research and development firms, publishing, public relations, finance and some large industries are the major employers. Graduates employed by foreign as well as domestic firms are included in this category.

Professional services

The professional services category (numbering 21) includes lawyers, ministers, psychologists, and consultants. The fields of study were predominately law and philosophy.

Other data on employment

To complete the picture of the types of positions which have been held by our doctoral graduates, the very brief summary below gives, by broad categories, the last (or primary) employment of those graduates who are no longer living.

	Number	Percent
Higher education	18	27.2
Other education	4	6.1
Public service	25	37.9
Professional services	12	18.2
Non-profit organizations	4	6.1
Business and industry	3	4.5
Total	66	
No information	15	

’ Five of the graduates for whom no information has been secured received degrees in law and in all likelihood would fall in the professional services category. Three others were in philosophy, two in education, one in international relations and four in economics. No estimate of what type of work they may have engaged in seems appropriate.

Summary of findings

The American University conferred 681 earned doctorates on 680 individuals during the fifty years, 1916-1966. The social sciences were the predominant fields with international relations, economics, history, psychology, sociology, and government accounting for 62% of the degrees conferred. An additional 12% received doctorates in public administration.

The number of doctorates conferred annually has increased sharply in the last few years. Forty percent of all earned doctorates in the period 1916-1966 were conferred between 1960-1966, the last seven years of the period.

The undergraduate origin of our doctoral graduates does not differ markedly from national data developed by the National Academy of Sciences for the period 1958-1966.

The typical doctoral graduate held bachelor's and master's degrees from other colleges and universities. Only 6.3% of our doctoral graduates had received an undergraduate degree at American University and only 28.2% had completed a master's degree at American.

The median age at receipt of the degree for American University doctorates was 39, approximately eight years beyond the recent national figures. The median of just over 14 years between the baccalaureate and the American University doctorate is approximately six years longer than the median, nationally, for doctorates in all fields (1964-1966) but only three years longer than the national median for doctoral graduates who took each of their degrees in a different institution—the typical case at American University.

Less than 10% of all American University doctorates were conferred on women. For years 1958-1966, the percentage increased slightly (to 11.7%) and was almost identical to the national figure of 11% for that same period.

In terms of total numbers of doctorates conferred, American University ranked 83rd among the institutions in the United States for the period 1958-1966. By contrast, in the field of political science (defined to include international relations, area studies and public administration as well as government) the University is one of the major national sources of doctoral graduates, ranking 4th, 7th, and 3rd among the universities awarding degrees in this field in the three trienniums from 1958 to 1966.

American University awarded just over 18% of the doctorates given by universities in the District of Columbia (for the years 1962-63 through 1965-66) and one-third of the doctorates given by universities in the District in the fields in which American offered doctoral programs. By fields, 67% of the political science, 46% of the economics, 42% of the business administration, 30% of the psychology and also of the sociology doctorates awarded in the District of Columbia were granted by American University.

The survey of the 1916-1966 doctoral graduates yielded responses from 265 graduates who were reasonably representative of the fields and of the time span covered.

Until recently, the doctoral graduates had been primarily parttime students who were employed in a wide variety of positions in government and in other segments of the Washington community.

For the fulltime student, the Washington location was the primary attraction leading to enrollment at American University. For parttime students who were already in this area, the programs offered and the faculty were the primary considerations in the selection of the University.

Graduates who had attended fulltime tended to feel strongly that this was the only satisfactory way to complete a doctorate. But many parttime students balanced the disadvantages of study on this basis with the positive contributions made by the interaction with work experience. The majority of the graduates realistically took the view that the opportunity to study on a parttime basis was worth whatever effort was necessary to overcome the difficulties.

Most of the students held the fulltime faculty in high regard personally but considered them over-worked and, in some fields, not attuned to new developments in their disciplines.

The most unfavorable impressions of the graduates related to the Downtown Center facilities and to the library resources.

The next most frequent criticism concerned the scarcity of strictly graduate level seminars and, as a corollary, the frequent mixing of graduate and undergraduate students in the same classes.

Evaluation of the role of the parttime faculty ran the full gamut from complete endorsement of their capabilities and their contributions to rejection of the use of parttime faculty in doctoral programs.

The combination of parttime study under a small fulltime faculty which was supplemented by a large number of parttime faculty created special problems for the doctoral student, particularly in developing a thorough mastery of the fields of specialized study and in the supervision of research.

From the employment information obtained (for 85% of the 599 graduates still living), higher education is the largest single employer with nearly 42% (215) currently employed by or retired from colleges and universities. Over half of the graduates in political science, history, international relations and sociology are in higher education.

The proportion of American University graduates entering employment in higher education appears to be increasing and the type and location of the institutions which attract the graduate are changing. In comparing the pre-1960 and the 1960-1966 graduates we find a smaller proportion of the latter teaching in private institutions and a larger proportion teaching outside the Middle States area. For both the pre-1960 and 1960-1966 groups, over 70% are with institutions offering graduate work and approximately 40% are with colleges and universities enrolling over 10,000 students.

Federal, state and local governments employ just under 35% of our graduates and another 5% are in other phases of public service. Over 67% of the graduates in the combination of science, mathematics and statistics, and over 62% in public administration are in public service, either in this country or with international organizations or foreign governments. Fifty percent of the graduates in economics are also in public service.

A few notes on recent developments in graduate education at American University

In the past few years, many constructive steps have been taken to strengthen graduate work and the conditions under which it can be accomplished at American University. The graduate of only a short time ago might find it difficult to recognize his alma mater. As of the Spring 1969 semester, the University has discontinued classes at the so-very-familiar but equally so inadequate 19th and F Street Center. The sale of that downtown property and the construction of a large classroom building on the Ward Circle Campus (occupied for the Spring 1969 semester), are the latest in a series of steps the University has taken to improve the instructional facilities available. A new library is the first priority in future construction plans for the campus and in the meantime the library resources are growing rapidly. By no means is the library adequate for doctoral research but the Washington community and, more recently, the Consortium of Universities provide wide ranging research capabilities.

University enrollment in Fall 1968 totaled over 14,600. Of immediate interest in this study is the development of the fulltime graduate student body. Using 1960 as a reference point, the University at that time had 180 fulltime master's level students and 35 fulltime at the doctoral level. In fall 1968 (in spite of a slight reduction from the previous fall semester as a result of the change in selective service policy) the enrollment of 558 fulltime master's level students represented a 210% increase while the 182 fulltime doctoral students were a 420% increase over 1960. By comparison, the total University enrollment increased approximately 75% from 1960 to 1968, including a doubling of fulltime undergraduate enrollment. The small enrollment of fulltime graduate students at the 1960 base may tend to overinflate the magnitude of the change. But the change is real and it has had a decided effect on the University and its programs.

The growth in fulltime faculty (from 200 in Fall 1960 to 360 in Fall 1968) has meant that although the number of parttime faculty has remained relatively stable, the role they play has been substantially modified. Thus the University still utilizes as parttime faculty many of the qualified individuals in the Washington area. But the proportions of parttime and fulltime faculty have been radically changed in most fields. Overall, not more than 25% to 30% of the courses are taught by parttime faculty (including graduate assistants) and these courses are chiefly in the undergraduate programs or in specialized graduate fields. Supervision of doctoral research is now under the direction of fulltime faculty as is the preparation and reading of the comprehensive examinations. Greater flexibility in requirements has encouraged more independent study and research as compared with the heavily course-oriented doctoral programs of the past. The use of graduate students as teaching fellows and as discussion section leaders is providing a classroom teaching experience for a rapidly expanding number of graduate students.

From Fall 1960 to Fall 1968 the number of courses open only to graduate students in the departments and schools offering doctoral programs has more than tripled and the number of mixed level courses (open to graduates and advanced undergraduates) has been reduced by one-third. The balance between the two levels of courses in the graduate instructional program has shifted from 20% at the purely graduate level in Fall 1960 to nearly 60% in Fall 1968. Accompanying this change was the one made possible by the increased number of fulltime faculty. In Fall 1968 over 80% of the strictly graduate level courses were taught by fulltime faculty. In Fall 1960, even with the very much smaller number of courses, only 60% had been taught by members of the fulltime faculty.

The average teaching load for all fulltime faculty is approximately ten hours each semester with those teaching at the graduate level carrying somewhat smaller loads. Many of the faculty are engaged in research with publication of the results a primary objective. Faculty participation in the various professional associations is increasing.

The Cartter study, referred to earlier in this report, identified several factors which appear to have a direct relationship to the quality of graduate programs. One of these is the faculty salary levels, especially at the two upper ranks.[31] In this area, too, the change at American University since 1960 has been significant. The table below shows for Fall 1960 and Fall 1968 both the salary and the compensation averages for all of the members of the teaching faculty in each of the four ranks.

The degree of improvement in faculty salary averages is reflected not only in the increases in dollars but also in the higher ratings based on the scales established by the American Association of University Professors. Briefly, if the University were merely keeping up with the increased cost of living, the ratings would remain at the "C" and "D" levels. Instead, we have reached the "A" rating at all but the full professor rank—which is, of course, a critical one insofar as graduate work is concerned.

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[31] Cartter, *op. cit.*, p. 111-114.

Table 10

Fulltime Teaching Faculty Salary and Compensation Averages, and AAUP rating, by Rank, Fall 1960 and Fall 1968

Rank	Average Salary	Average Compensation[32]	AAUP Rating
Professor			
Fall 1960	$ 8,495	$ 9,243	"D"
Fall 1968	16,687	19,040	"B"
Associate Professor			
Fall 1960	6,870	7,392	"D"
Fall 1968	12,257	14,038	"A"
Assistant Professor			
Fall 1960	5,945	6,415	"C"
Fall 1968	10,230	11,791	"A"
Instructor			
Fall 1960	4,797	5,262	"B"
Fall 1968	8,620	9,933	"AA"

In the two years (1967 and 1968) subsequent to the periods covered in this study, American University conferred 153 doctorates. This amounted to 22.5% of the total number of doctorates which had been earned during the first fifty years at American. While doctoral programs have been instituted (or more accurately, re-instituted) in the mid-1960's in physics and in chemistry, only two of the Ph.D.'s (both in physics) were in these additional fields. In the field of education, the additional program leading to the Doctor of Philosophy was completed by a total of seven individuals in 1967 and 1968. Thus only nine of the 153 doctorates could be attributed to the expansion of the fields or the degrees available in the University's doctorate programs. The growth in the number of doctorates conferred can be expected to continue but perhaps at a less dramatic rate.

Conclusion

The American University, opened as a graduate institution just over fifty years ago, has premised its doctoral programs on two equally valid objectives: 1) graduate education for those fully employed in government, business and a wide variety of other organizations in the Washington community; and 2) graduate education for those who expect to enter the academic and related professions. Both parttime and fulltime students could pursue programs designed to meet their particular objectives.

The value of the programs aimed at meeting the first objective is borne out by the favorable opinions of most of the doctoral graduates. The success in meeting the second objective has been more mixed but the careers of our graduates, in both cases, give the University substantial basis for pride in their achievements.

The American University was not unaware of the criticisms which have been voiced by our graduates in this survey and the University has taken many steps to improve its doctoral programs. This progress will continue.

For the short run, American University's future profile of earned doctorates has already been determined—by the admissions practices, the program requirements and the other policies established by the departments and schools in the immediate past. Decisions made now concerning graduate work, and especially doctoral level programs, as they relate to the numbers of students, the fields available, the scope of programs, the size and nature of the faculty, the financial support for students and the general levels and sources of funding, will be reflected only in the course of the longer range development of American University.

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[32] Compensation is salary plus those fringe benefits for which the University (not the individual) bears the full cost.

Appendix A

Figure I Number of earned doctorates, by year, 1916-1966 and 1967, 1968

Table I Earned doctorates, by title of degree and by year, 1916-1966

Table II Earned doctorates, by field and by decades, 1916-1966

Table III Earned doctorates, geographically by state of bachelor's degree (United States only) and by doctoral field, 1916-1966

Table IV Earned doctorates, by college of bachelor's degree, and by doctoral field, 1916-1966 (includes only colleges with four or more such graduates)

Table V Earned doctorates, geographically by country (non-United States) of bachelor's degree and by doctoral field, 1916-1966

Table VI Employment of doctoral graduates, by type of employer and by field of doctorate

Table VII Employment of doctoral graduates in federal government, by departments and agencies and by field of doctorate

Figure I
Number of Earned Doctorates, By Year, 1916-1966 and 1967, 1968

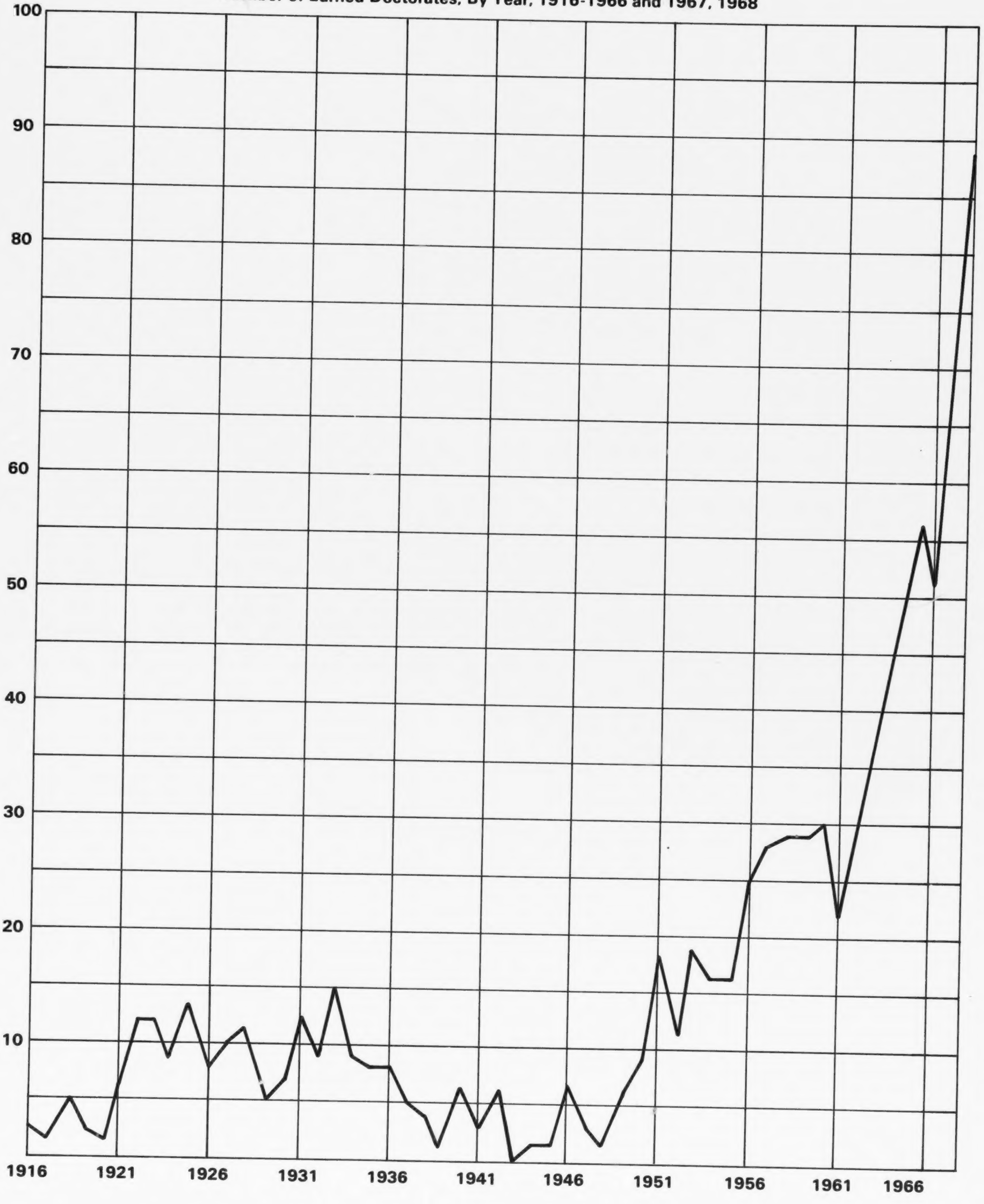

Table I
Earned Doctorates, By Title of Degree and by Years, 1916-1966

Year	Doctor of Philosophy	Doctor of Education	Doctor of Science	Doctor of Civil Law	Doctor of Juristic Science	Doctor of Juris-prudence	Total
1916	2						2
1917	1						1
1918	4			1			5
1919	2						2
1920	1						1
1921	1			5			6
1922	3			8		1	12
1923	5			5	2		12
1924	4			5			9
1925	8		1	4			13
1926	5		1	2			8
1927	8			2			10
1928	8			3			11
1929	5						5
1930	7						7
1931	12						12
1932	9						9
1933	15						15
1934	9						9
1935	7		1				8
1936	8						8
1937	5						5
1938	4						4
1939	1						1
1940	6						6
1941	2						2
1942	6						6
1943	–						–
1944	1						1
1945	1						1
1946	6						6
1947	2						2
1948	1						1
1949	6						6
1950	9						9
1951	18						18
1952	11						11
1953	19						19
1954	16						16
1955	16						16
1956	25						25
1957	28						28
1958	25	4					29
1959	27	2					29
1960	28	2					30
1961	20	2					22
1962	25	5					30
1963	35	2					37
1964	43	6					49
1965	51	5					56
1966	45	6					51
Total	606	34	3	35	2	1	681

Table II

Earned Doctorates by Field and by Decades, 1916-1966

Field	**1916-19**	**1920-29**	**1930-39**	**1940-49**	**1950-59**	**1960-66**	**Total**
Economics	–	6	17	13	43	36	115
History	1	7	9	4	21	24	66
Psychology	–	–	3	1	18	33	55
Sociology	–	–	–	3	12	13	28
Area Studies	–	–	–	–	–	6	6
International Relations	–	6	5	3	45	62	121
Political Science/Government	–	5	4	2	13	16	40
Public Administration	–	–	2	5	37	37	81
Business Administration	–	1	1	–	–	14	16
Education	1	6	8	–	6	28	49
Biology	3	8	2	–	–	–	13
Chemistry	1	4	15	–	–	–	20
Physics	–	1	2	–	–	–	3
Mathematics	–	–	–	–	3	2	5
Statistics	–	–	–	–	2	4	6
Philosophy	2	3	10	–	–	–	15
Religion	1	2	–	–	–	–	3
Law	1	38	–	–	–	–	39
Total	10	87	78	31	200	275	681

Table III

Earned Doctorates, Geographically by State of Bachelor's Degree and by Doctoral Field, 1916-1966

State of Bachelor's Degree	Econ	Hist	Psych	Soc	Area Studies	Intl Rel	Govt	Pub Adm	Bus Adm	Ed	Biol	Chem	Phys	Math	Stat	Phil	Rel	Law	Total
Alabama	–	–	–	–	–	–	–	1	–	2	–	–	–	–	–	–	–	–	3
Arizona	–	–	–	–	–	–	1	1	–	–	–	–	–	–	–	–	–	–	2
Arkansas	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1
California	2	2	1	1	–	3	1	4	–	2	–	–	–	–	–	–	–	–	16
Colorado	1	1	–	1	–	3	–	1	–	–	–	1	–	–	–	–	–	–	8
Connecticut	–	3	–	–	–	2	–	1	–	–	–	1	–	–	–	–	–	–	7
Delaware	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1
District of Columbia	13	11	11	5	–	12	6	20	3	8	1	–	1	1	–	1	–	20	113
Florida	–	2	–	–	–	1	1	1	–	1	–	1	–	–	–	–	–	–	7
Georgia	1	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	3
Idaho	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1
Illinois	2	2	4	–	–	4	3	3	2	2	1	2	–	1	–	–	–	1	27
Indiana	1	5	–	–	–	1	2	–	–	1	–	1	–	–	–	–	–	1	12
Iowa	1	1	–	–	–	2	1	2	–	1	1	–	–	–	–	–	–	–	9
Kansas	–	1	–	1	–	–	3	–	–	–	–	–	–	–	–	–	–	–	5
Kentucky	–	–	–	–	–	1	–	2	–	–	–	–	–	–	–	–	–	–	3
Louisiana	1	–	–	–	–	2	1	–	–	–	–	–	–	–	–	–	–	1	5
Maine	1	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	2
Maryland	1	3	7	–	–	5	1	–	2	1	3	–	–	–	–	1	–	–	24
Massachusetts	4	2	1	1	–	5	1	2	1	1	–	2	2	1	2	2	1	1	29
Michigan	2	–	–	1	2	1	–	–	1	1	–	–	–	–	–	2	–	–	10
Minnesota	1	1	–	–	–	1	2	1	–	2	–	2	–	–	–	–	–	2	12
Mississippi	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1
Missouri	1	–	–	–	1	2	1	2	–	1	–	–	–	–	–	–	–	1	9
Nebraska	3	2	1	1	–	1	1	1	–	–	–	1	–	–	–	–	–	–	11
New Hampshire	1	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	2
New Mexico	–	–	–	–	–	1	2	–	–	1	–	–	–	–	–	–	–	–	4
New Jersey	2	–	3	–	–	1	1	1	–	–	–	–	–	–	–	–	–	–	8
New York	29	7	12	5	–	14	2	14	3	–	–	–	–	2	3	1	–	1	93
North Carolina	2	3	–	–	–	–	–	–	–	1	2	–	–	–	–	–	–	–	8
North Dakota	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1
Ohio	7	2	4	2	–	5	2	2	1	2	1	2	–	–	–	3	1	2	36
Oklahoma	–	1	–	–	–	1	1	–	1	1	–	1	–	–	–	–	–	–	6
Oregon	1	1	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	1	4
Pennsylvania	3	4	5	2	1	4	–	3	1	8	1	1	–	–	–	1	1	1	36
Rhode Island	2	–	–	1	–	1	–	1	–	1	–	–	–	–	–	–	–	–	6
South Carolina	–	–	–	–	–	–	–	1	–	1	–	1	–	–	–	–	–	2	5
South Dakota	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1
Tennessee	1	2	–	–	–	1	–	–	–	2	–	–	–	–	–	–	–	1	7
Texas	2	2	1	–	–	5	1	–	–	–	–	–	–	–	–	1	–	–	12
Utah	2	–	–	–	–	1	3	2	–	–	–	–	–	–	–	–	–	–	8
Vermont	–	–	–	–	–	1	–	1	–	–	–	–	–	–	–	1	–	–	3
Virginia	2	–	–	2	–	2	1	–	–	3	–	–	–	–	–	1	–	1	12
Washington	2	1	2	–	1	1	–	–	–	–	1	2	–	–	–	–	–	–	10
West Virginia	–	1	–	–	–	–	1	1	–	2	–	–	–	–	–	–	–	–	5
Wisconsin	2	–	2	1	–	1	–	5	–	–	1	–	–	–	–	1	–	–	13
Wyoming	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1
Puerto Rico	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1
Total—United States	96	61	54	24	5	87	39	77	15	47	13	18	3	5	5	15	3	36	603

Table IV

Earned Doctorates by College of Bachelor's Degree and by Doctoral Field, 1916-1966@

College of Bachelor's Degree	Econ	Hist	Psych	Soc	Area Studies	Intl Rel	Govt	Pub Adm	Bus Adm	Ed	Biol	Chem	Phys	Math	Stat	Phil	Rel	Law	Total
CALIFORNIA																			
U. of California	1	1	–	1	–	–	1	1	–	1	–	–	–	–	–	–	–	–	6
COLORADO																			
U. of Denver	1	1	–	1	–	1	–	–	–	–	–	1	–	–	–	–	–	–	5
CONNECTICUT																			
Yale	–	2	–	–	–	1	–	1	–	–	–	–	–	–	–	–	–	–	4
DISTRICT OF COLUMBIA																			
American U.	5	8	3	2	–	5	2	9	2	4	–	–	–	–	–	–	–	3	43
George Wash. U.	7	2	8	1	–	6	3	8	1	3	1	–	1	–	–	1	–	10	52
Georgetown U.	–	–	–	–	–	–	1	1	–	–	–	–	–	–	–	–	–	7	9
Howard U.	1	1	–	2	–	1	–	2	–	–	–	–	–	1	–	–	–	–	8
FLORIDA																			
U. of Florida	–	1	–	–	–	1	–	–	–	1	–	1	–	–	–	–	–	–	4
ILLINOIS																			
Northwestern	–	1	1	–	–	1	–	1	–	2	–	–	–	–	–	–	–	–	6
Chicago	1	1	1	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	4
U. of Illinois	1	–	–	–	–	–	–	–	2	–	1	1	–	–	–	–	–	–	5
MARYLAND																			
Johns Hopkins	–	–	2	–	–	2	–	–	–	1	–	–	–	–	–	1	–	–	6
U. of Maryland	1	1	2	–	–	2	–	–	2	–	3	–	–	–	–	–	–	–	11
MASSACHUSETTS																			
Harvard	1	–	–	–	–	1	1	1	1	1	–	1	–	–	–	1	–	1	9
MINNESOTA																			
U. of Minnesota	–	–	–	–	–	–	1	1	–	1	–	2	–	–	–	–	–	–	5
NEBRASKA																			
U. of Nebraska	2	–	1	1	–	1	1	1	–	–	–	1	–	–	–	–	–	–	8
NEW JERSEY																			
Rutgers	2	–	2	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	5
NEW YORK																			
Brooklyn	5	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	6
Columbia	2	1	1	–	–	1	–	1	–	–	–	–	–	–	–	–	–	–	6
New York U.	3	–	2	1	–	1	1	–	1	–	–	–	–	–	1	–	–	–	10
Syracuse	4	–	–	–	–	1	–	2	1	–	–	–	–	–	–	1	–	–	9
City College	13	1	3	3	–	3	–	9	1	–	–	–	–	1	2	–	–	–	36
U.S. Mil. Acad.	–	1	–	–	–	2	–	1	–	–	–	–	–	–	–	–	–	–	4
OHIO																			
Ohio State	3	–	3	–	–	–	–	–	–	1	–	1	–	–	–	1	–	–	9
PENNSYLVANIA																			
Temple	1	1	1	–	–	1	–	–	–	–	1	–	–	–	–	–	–	–	5
Pittsburgh	–	–	1	–	–	–	–	1	–	2	–	–	–	–	–	–	–	–	4
RHODE ISLAND																			
Brown	2	–	–	–	–	1	–	–	–	1	–	–	–	–	–	–	–	–	4
TEXAS																			
U. of Texas	2	2	1	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	7
UTAH																			
U. of Utah	–	–	–	–	–	1	2	1	–	–	–	–	–	–	–	–	–	–	4
WASHINGTON																			
Wash. State U.	–	–	–	–	1	–	–	–	–	–	1	2	–	–	–	–	–	–	4
WISCONSIN																			
U. of Wisconsin	1	–	1	1	–	1	–	3	–	–	1	–	–	–	–	–	–	–	8
Total	59	25	34	13	1	37	14	44	11	18	8	10	1	2	3	5	–	21	306

@Includes only Colleges and Universities from which four or more students received bachelor's degrees

Table V

Earned Doctorates, Geographically by Country of Bachelor's Degree and by Doctoral Field, 1916-1966

Country of Bachelor's Degree	Econ	Hist	Psych	Soc	Area Studies	Intl Rel	Govt	Pub Adm	Bus Adm	Ed	Chem	Stat	Law	Total
India	6	–	–	2	–	7	–	1	–	1	–	1	–	18
Lebanon	1	–	–	1	–	4	–	1	1	–	–	–	–	8
Egypt	1	–	–	–	–	5	–	–	–	–	–	–	–	6
Syria	4	–	–	–	–	2	–	–	–	–	–	–	–	6
Iraq	1	–	–	–	–	2	1	1	–	–	–	–	–	5
Iran	1	–	–	–	1	2	–	–	–	–	–	–	–	4
Canada	1	1	–	–	–	1	–	–	–	–	–	–	–	3
China	1	–	–	1	–	1	–	–	–	–	–	–	–	3
England	–	–	1	–	–	1	–	–	–	–	–	–	–	2
Pakistan	2	–	–	–	–	–	–	–	–	–	–	–	–	2
Philippines	–	–	–	–	–	–	–	1	–	1	–	–	–	2
Sweden	–	1	–	–	–	–	–	–	–	–	1	–	–	2
Turkey	–	1	–	–	–	1	–	–	–	–	–	–	–	2
Afghanistan	–	–	–	–	–	1	–	–	–	–	–	–	–	1
Bolivia	–	–	–	–	–	1	–	–	–	–	–	–	–	1
Brazil	–	–	–	–	–	1	–	–	–	–	–	–	–	1
Bulgaria	–	–	–	–	–	1	–	–	–	–	–	–	–	1
Czechoslovakia	1	–	–	–	–	–	–	–	–	–	–	–	–	1
France	–	–	–	–	–	–	–	–	–	–	1	–	–	1
Switzerland	–	–	–	–	–	1	–	–	–	–	–	–	–	1
Israel	–	1	–	–	–	–	–	–	–	–	–	–	–	1
Japan	–	–	–	–	–	1	–	–	–	–	–	–	–	1
Korea	–	–	–	–	–	1	–	–	–	–	–	–	–	1
Russia	–	1	–	–	–	–	–	–	–	–	–	–	–	1
Thailand	–	–	–	–	–	1	–	–	–	–	–	–	–	1
Uruguay	–	–	–	–	–	–	–	–	–	–	–	–	1	1
Yugoslavia	–	–	–	–	–	–	–	–	–	–	–	–	1	1
Total	19	5	1	4	1	34	1	4	1	2	2	1	2	77

Table VI

Employment of Doctoral Graduates, by Type of Employer and by Field of Doctorate, 1916-1966

Field	Higher Education			Other Education	Govt: Fed State Local	Foreign Govts & Intl Org	Prof Service	Private (non-profit) Org., Assoc., Foundations	Business & Industry	Other	No Info	Deceased	Total
	Teach	Admin	Res										
Economics	22	2	3	–	32	11	1	3	12	–	15	14	115
History	26	4	–	2	12	1	–	3	3	–	9	6	66
Psychology	11	–	3	3	18	–	3	4	6	1	4	2	55
Sociology	12	2	–	–	8	2	–	1	–	1	1	1	28
Area Studies	3	–	–	–	2	–	–	–	–	–	1	–	6
Intl Relations	51	3	–	2	21	7	4	1	3	–	26	3	121
Government	15	5	–	–	7	–	2	1	–	–	6	4	40
Public Adm.	13	5	2	–	41	2	–	5	1	–	9	3	81
Business Adm.	5	2	–	–	2	–	–	–	7	–	–	–	16
Education	15	1	–	5	10	2	1	2	1	–	4	8	49
Biology	1	1	–	–	3	1	–	–	–	–	1	6	13
Chemistry	–	–	2	–	10	–	–	–	1	–	1	6	20
Physics	–	–	–	–	–	–	–	1	–	–	1	1	3
Mathematics	1	–	–	–	4	–	–	–	–	–	–	–	5
Statistics	2	–	1	–	2	1	–	–	–	–	–	–	6
Philosophy	1	–	–	1	2	–	5	–	–	–	–	6	15
Religion	1	–	–	–	–	–	–	–	–	–	–	2	3
Law	–	–	–	–	4	1	5	1	–	–	8	19	38
Total	179	25	11	13	178	28	21	22	34	2	86	81	680

Table VII

Employment of Doctoral Graduates in Federal Government, by Departments and Agencies and by Field of Doctorate, 1916-1966

	Econ	Hist	Psych	Soc	IR & AS	Govt	Pub Adm	Bus Adm	Ed	Sci Math Stat	Phil Rel	Law	Total
Department of State	5	1	–	–	11	1	5	–	1	–	–	–	24
Dept. of Health, Education & Welfare	2	2	1	3	3	1	6	–	3	1	1	1	24
Dept. of Defense	4	3	9	1	3	–	11	1	3	4	1	–	40
Dept. of Commerce	2	2	–	–	1	2	2	–	–	3	–	–	12
Treasury Dept.	2	–	–	–	–	–	–	–	–	–	–	1	3
Dept. of Labor	1	–	–	4	–	–	–	–	–	–	–	–	5
Dept. of Agriculture	5	–	–	–	–	–	1	1	–	7	–	–	14
Dept. of Interior	–	–	–	–	–	–	–	–	–	2	–	–	2
Post Office Dept.	–	–	–	–	–	–	–	–	–	1	–	–	1
Dept. of Housing & Urban Development	3	–	–	–	–	–	1	–	–	–	–	–	4
Dept. of Transportation	–	–	–	–	–	–	2	–	–	–	–	–	2
Central Intelligence Agency	1	–	–	–	–	–	2	–	–	–	–	–	3
National Aeronautics & Space Administration	–	1	–	–	1	–	–	–	–	–	–	–	2
General Services Administration	–	2	–	–	–	–	3	–	–	–	–	–	5
Bureau of the Budget	–	–	–	–	–	2	1	–	–	–	–	–	3
Civil Service Commission	–	–	2	–	–	–	–	–	–	–	–	–	2
Civil Aeronautics Board	2	–	–	–	–	–	–	–	–	–	–	–	2
Congress	2	–	–	–	1	1	–	–	–	–	–	–	4
Other Federal	2	1	–	–	3	–	4	–	2	–	–	1	13
Total	31	12	12	8	23	7	38	2	9	18	2	3	165

Department of State—includes Agency for International Development, United States Information Agency

Department of Health, Education and Welfare—includes Office of Education, Public Health Service, National Institutes of Health, and Social Security Administration

Department of Defense—includes Departments of Army, Navy and Air Force, and active duty, and Defense Intelligence Agency

Department of Commerce—includes National Bureau of Standards, Patent Office, Environmental Science Services Administration, Census Bureau

General Services Administration—includes National Archives

Congress—includes Committees and Legislative Reference Service

Other Federal —includes Interstate Commerce Commission, Veterans Administration, Export-Import Bank, Smithsonian Institution, National Science Foundation, Equal Employment Opportunity Commission, the U.S. Tax Court, and six graduates whose employing agency was not identified.

Appendix B

List of doctoral graduates, 1916-1966, alphabetically within field of study, showing year degree conferred

Economics 44
History 45
Psychology 45
Sociology 46
Area Studies 46
International Relations 46
Political Science/Government 47
Public Administration 48
Business Administration 48
Education 49
Biology 49
Chemistry 49
Physics 49
Mathematics 49
Statistics 49
Philosophy 50
Religion 50
Law 50

Economics - 115

52 Adams, Quincy
32 Aitchison, Clyde Bruce
28 Allen, Edith Louise
48 Allen, Edward Lawrence
52 Ayoubi, Mohamed Sadek
64 Beckler, Bernard Saul
44 Beede, Kenneth Charles
41 Blair, John M.
59 Bloom, Max Robert
53 Bluestone, David W.
33 Bogman, James H. Beals
66 Bolster, Richard Lovell
34 Breakey, Herbert A.
60 Breimyer, Harold Frederick
59 Brodsky, Nathan
50 Burk, Monroe
33 Burrows, Robert Newton
38 Carroll, Frank Samuel
57 Chatti, Bourhan Taher
31 Clement, Clarence Elbert
63 Clickner, Edwin Kirwan
56 Colmen, Kenneth Seymour
59 Cooper, Chester L.
46 Cottle, Charles Sidney
55 Crandall, Burton Benjamin
40 Crawford, Arthur Whipple
55 Davis, Thomas Jefferson
49 Ducoff, Louis Joseph
52 El-Adly, Ibrahim Khalil
58 El-Mutwalli, Tariq Nuri
65 Fassberg, Harold Edward
57 Finler, Bennett
65 Fischer, Monroe Carl
57 Fredland, John Roger
53 Friend, Irwin
40 Gaddis, Porter L.
63 Gathof, Francis William, Jr.
57 Goldberg, Benjamin
57 Goldstein, Sidney
66 Guadagnoli, Louis George
53 Hellner, Maurice Henry
62 Himes, Robert Stanley
35 Ho, Tin Gwang
47 Hoffman, H. Theodore
40 Hogenson, Palmer Tobias
62 Houk, John Talbott, Jr.
29 Howell, William Rabon
59 Hoyt, John Stanley, Jr.
35 Hunter, Kenneth H.
65 Jain, Chaman Lal
27 Jarvis, Clarence Sylvester
50 Kane, John Ewing
55 Katabi, Mohamed Adnan
66 Katz, S. Stanley
35 Kendrick, James Frank
31 Kenny, Norris Gage
54 Kerley, David Moorman
31 Kim, To Youn
40 Kindt, Lawrence Elliott
56 Kliston, Theodore S.
66 Landau, Emanuel
66 Leontiades, Milton C.
34 Levin, Jack
65 Levin, Theodore Herzl
61 Liebling, Herman I.
42 Limmer, Ezekiel
59 Little, Edward Southard
52 Lyon, Robert, Jr.
64 Malik, Abdul
64 Malik, Nabila Abdul
66 Mardini, Adnan Jawdat
27 McDowell, John Chambers
54 Miller, Herman P.
61 Minai, Ahmad
51 Naidel, Simon
60 Naseem, Haneef Ahmed
53 Osterbind, Carter Clarke
63 Parikh, Abhaykumar Chhotalal
58 Pelissier, Raymond Francis
53 Poffenberger, Paul Routzahn
62 Polach, Jaroslav George
59 Polinsky, Ella Joan
31 Price, David James
42 Redfield, Arthur Huber
49 Richard, D. L.
56 Rosen, Howard
64 Sadiq, Nasim Mahmood
51 Schechter, Henry B.
58 Schwartz, Robert Jay
58 Sharron, Arthur O.
33 Shelledy, Frederick Henry
51 Shenefield, Hale T.
63 Singh, Balwir
62 Singh, Shamsher
52 Smith, Harold David
63 Smith, Howard Frank
55 Smith, Paul F.
26 Somers, Lee
49 Sonnino, Mario Anthony
53 Spencer, Daniel Lloyd
34 Stadler, Robert Burt
37 Steer, Henry Bake
60 Tachino, Tadami
64 Tansky, Leo
65 Thornton, Allan Fitzhugh
58 Tyagi, VirViranjan Singh
64 Varki, Thankamma C.

64 Vowels, Robert Clifford
64 Wason, James Robert
66 Weintraub, Sidney
58 Williamson, Robert Burns
65 Wool, Harold
38 Wright, John William
62 Wright, Leonard Townsend
27 Zucker, Joseph Steinhauer

History - 66

64 Aldridge, Frederick Stokes
51 Alexander, A. John
60 Anderson, Carl Dicmann
56 Bain, Chester Arthur
25 Benton, Frederick Leslie
59 Buck, James Harold
38 Caemmerer, H. Paul
50 Cannon, M. Hamlin
65 DiBacco, Thomas Victor
59 Dibble, Ernest F.
60 Didsbury, Howard Francis, Jr.
64 Dietz, Anthony George
32 Drake, Miles Ellis
28 Dudley, Harold Merriman
42 Flotow, Ernest
25 Gatke, Robert Moulton
51 Gendebien, Albert W.
60 Green, Murray
28 Groseclose, Elgin Earl
46 Hartman, Grover Lowell
60 Hassing, Per Schioldborg
66 Hewett, Robert Foster
22 Holliday, Carl
36 Hubbard, Genevieve Gregg
51 Hutcheson, Maud Macdonald
61 Kaganoff, Nathan M.
54 Kaiser, Chester Carl
50 Key, Kerim K.
57 Kiernan, Bernard Peter
66 Koginos, Emmanuel Theodore
61 Korgan, Julius
56 Latour, Conrad F.
52 Lewis, Harold O.
51 Link, Mae Mills
65 Liss, Sheldon B.
42 Loasby, Roland
60 Lykes, Richard Wayne
53 McClellan, Willard Cave
54 McCoy, Donald Richard
62 Mehl, Joseph Martin, Jr.
60 Murdzek, Benjamin Peter
65 Murphy, James Thomas, Jr.
37 Nipe, Merlin Harris
27 Olins, Peter Zeedonis
63 Petersen, Richard James
53 Pinkett, Harold Thomas
46 Power, Richard Lyle
66 Pugh, Evelyn Littleton
18 Putney, Albert Hutchinson
31 Reed, Spencer Harris
65 Rhoads, James Berton
57 Rundell, Walter, Jr.
32 Russell, Willis Cleaves
55 Sander, Aldred D.
66 Scheips, Paul Joseph
65 Slagle, Robert Oakley
66 Spindler, Frank MacDonald
57 Spraggins, Tinsley Lee
35 Steinmeyer, Reuben
34 Teu, Sanfjord Brogdyne II
25 Wallace, Sarah Agnes
55 Williams, Lorraine Anderson
55 Wood, Marie Viola
62 Woods, Kenneth Flint
63 Yodfat, Aryeh Y.
32 Yoon, Stanley Sung-soon

Psychology - 55

65 Altland, Norman Richard
56 Barber, Theodore Xenophon
65 Berkhouse, Rudolph G.
54 Bornstein, Harry
40 Bransford, Thomas Lowe
63 Brody, Grace Freidson
55 Browning, Rufus Charles
59 Cannon, William John
61 Colwell, James Morrison
58 Cooper, Morton
63 Decker, Louis Richard
58 Dunn, Theodore Franklin
64 Fields, Victor
59 Fitzpatrick, Richard Stanislaus
65 Frankfurt, Leslie P.
63 Fried, Charles
57 Geller, Irving
56 Gilgash, Curtis Arnold
66 Hallam, Kenneth Jerome
62 Hochman, Irvin
65 Hoyt, William George
61 Jones, Roy Junios
66 Kassoff, Arthur I.
63 Kurke, Martin Ira
57 La Gaipa, John James
59 Lippitt, Gordon L.
33 Macvaugh, Gilbert Stillman
57 Mann, Vera Deane Hoffman
61 Maslow, Albert R.
65 Mindlin, Dorothee Friedlander
58 Mitchell, Lonnie Edward

63 Myer, Ruth Estelle
65 Nagay, John A.
65 Nelson, William Howard
63 Pauling, Frederick Joseph
54 Peters, Julius Melvin
65 Phillips, Robert Leonard
61 Rasmussen, John Edward
63 Rast, Robert
63 Rosnow, Ralph Leon
30 Rossman, Joseph
65 Safer, Susanne Renee Arvay
58 Schatz, Louis
62 Schultz, Duane Philip
66 Schwarz, Robert Henry
61 Shultz, Meyer
64 Siegel, Herbert Aaron
35 Smith, Lybrand Palmer
59 Spock, Anne Ingersoll
56 Sprunger, James Amstutz
66 Thomas, James Albert
61 Tiedemann, John G.
63 Wagner, Carl Michael
62 Walt, Dorothy Elizabeth (Mrs. Waugh)
54 Woods, Irving Arro

Sociology - 28

54 Allen, Philip James
58 Blue, John Titus
64 Capps, Robert Grimes
42 Chen, I. Husuan Julia
60 Enterline, Philip Ernest
56 Fox, James Harold
58 Garfinkle, Stuart Harold
55 Gasser, Robert Louis
65 Gitter, A. George
61 Gross, Edwin J.
66 Grotefend, Mary Emery
63 Hawver, Carl F.
64 Irelan, Lola Marie
61 Johnston, Denis Foster
45 Lofton, Williston Henry
57 Matsumoto, Yoshiharu Scott
51 Pasha, Zahida Hamid
53 Persh, Louis
64 Person, Philip Hilmar, Jr.
58 Raj, Hilda
58 Sen Gupta, Anima
64 Shostack, Albert Lawrence
64 Solon, Jerry Alan
63 Stone, Anthony Robert
59 Turk, Herman
60 Weary, Bettina
52 Whiting, Albert Nathaniel
49 Williams, Chancellor

Area Studies - 6

63 Burton, Robert Bentley, Jr.
66 Chung, In Teak
63 Medish, Vadim
66 Pajak, Roger Frank
64 Rajaee, Ahmad Ali
62 Rew, Joung Yole

International Relations - 121

56 Alam, Abdel Raouf Abu
64 Alexander, Thomas Ley
66 Atkins, George Pope
40 Atwater, Francis Elton
57 Austin, Henry
64 Bahrampour, Firouz
54 Bass, Charles White
64 Bavand, Bavoud Hermidas
62 Berman, Sylvan M.
62 Bhansali, Krishnaprasad Girdharlal
54 Blackstock, Paul William
57 Bonnell, Helen Marie (Mrs. Butt)
64 Brown, Janet Welsh
58 Budhraj, Vijay Sen
57 Bullockus, Theodore
66 Burgess, Philip Mark
64 Carpenter, Bruce Rogers
66 Chang, Teh-Kuang
60 Choffy, S. Clark
55 Chung, Han-Pom
21 Chung, Henry
64 Coplin, William David
64 Couloumbis, Theodore Alexander
65 Coyne, Michael John
56 Dajany, Omar
65 Darwish, Ibrahim Mohamed Mostafa
56 Eilers, R. M.
63 El-Bakri, Adnan H.
65 El-Erris, Tarik Sultan
62 El-Khalil, Ali Yusuf
55 El-Saghieh, Khaled Ibrahim
64 Epstein, Carl Plakcy
66 Farzanegan, Bahram
66 Fawwaz, Adnan I.
58 Fedder, Edwin H.
63 Flapan, Maxwell
27 Fonbuena, Eugenio Maglaya
35 Foote, Walter Ambrose
22 Ford, Joseph H.
57 Fotos, Evan
62 Gaber, Mohamed Hosney Mohamed
57 Gareau, Frederick Henry
66 Ghatate, Narayan M.
64 Goze, Haluk Necdet
57 Harper, Robert William
64 Hillam, Ray Cole

61 Hoben, Katherine Hunter
64 Holly, David Chauncy
41 Housel, Jerry Winters
66 Hull, Doris M.
53 Hutchins, John A.
56 Huyck, Earl Eugene
64 Jo, Yung-Hwan
66 Johnson, E. Luther
57 Kabbani, Rashid
51 Karch, John J.
59 Khabiri, Cyrus Hossein
62 Khayat, Habeeb Albert
56 Kianfar, Mehdi
65 Klein, Theodore James
26 Kojouharoff, Constantin Dimitroff
58 Koury, Enver M.
57 Kshirsagar, Shiwaram Krishnarao
62 Lane, George Bayless, Jr.
60 Lewis, William Hubert
60 Makdisi, Nadim K.
64 Manno, Catherine Senf
50 Margrave, Robert N.
51 Marshall, William Edgar
65 McQueen, Donald Lee
66 Moe, George Robert
59 Morales-Yordan, Jorge
[illegible] Mustafa, Urabi S.
57 Nasir, Khalil Ahmad
51 Neel, Virginia Payne (Mrs. Mills)
65 Neff, Kenneth Lee
66 Nighswonger, William Asa
66 Onyewu, N. D. Ukachi
65 Park, Bum-Joon Lee
57 Patterson, Stewart Marshall
63 Patton, John Strohm
55 Perusse, Roland Irving
54 Petrov, Victor P.
53 Pincus, Joseph
66 Rainey, Gene Edward
66 Ramundo, Bernard Antony
66 Rawson, David Paul
52 Raymond, Edward Ashwell
65 Renfield, Richard Lee
53 Requé Alcócer, Luis
66 Rifai, Abdul Halim
63 Robinson, Donald Louis
60 Rogers, John M.
66 Rys, John Frank
57 Said, Abdul Aziz
33 Seckler-Hudson, Catheryn
64 Selivanoff, George Alexander
66 Shehabeddin, Mohammed Mohammed Hassan
59 Smith, Elaine Diana
65 Smith, Robert London
65 Spencer, William
64 Stein, Stanley Marian
65 Stillman, Arthur McLean
46 Strahan, James Russell
55 Tabibi, Abdul Hakim
59 Terry, Edgar Raymond
25 Todd, Harry Swain
63 Tyson, Brady Bradford
60 Urrutia-Aparicio, Carlos
24 Vinikas, Matos Joseph
61 Vyas, Pramod
55 Wadsworth, Lawrence, W., Jr.
58 Weaver, Paul Elwood
54 Wichiencharoen, Adul
33 Wilkinson, Vernon Lee
33 Wright, Ruth Etta
56 Yalem, Ronald J.
35 Yoon, Hong Sub
59 Yoon, Young Kyo
54 Yunus, K.
58 Zanotti, Isidoro

Political Science/Government - 40

54 Adham, Mohammed I.
64 Allensworth, Don Trudeau
56 Aridi, Bashir A.
36 Bacus, Horace Allen
49 Barnard, Bernard Lester
65 Barrett, Robert Alan
60 Bock, Robert Leroy
60 Broder, Simon
33 Brown, Alice Mary
59 Brown, William Henry
59 Byrd, Elbert M., Jr.
23 Carroll, Thomas Fitzgerald
60 Clem, Alan Leland
61 Darling, Frank Clayton
59 Dator, James Allen
53 Dorsey, Emmett E.
51 Enarson, Harold Leroy
63 Hanson, Royce
38 Hodge, Clarence Lewis
65 Huddle, Franklin Pierce
58 Kaaret, Raymond Henry
29 Keesecker, Ward W.
24 Kim, Ryea Sik
65 Lawrence, Samuel Appleton
23 Lewis, Stuart (also D.J. '22)
64 Loeb, Louis S.
64 Lyons, Schley Roosevelt
65 Maxam, William Pierce
59 Miller, Clifford John
22 Morganston, Charles Emile
65 Nupp, Byron LeRoy
55 Obern, Alfred Gaylord

55 Patino, Abelardo
60 Rivers, William Lawrence
47 Rodgers, Philip Ray
35 Sabella, Ricardo Hiceta
56 Skolnik, Alfred Milton
66 Smolka, Richard Gregory
61 Torrence, Lois E.
51 Turano, Peter Joseph

Public Administration - 81

63 Apstein, Maurice
57 Barmby, John Glennon
62 Berbano, Eunuel Valdez
65 Brijbhushan
52 Brown, Donald Perl
30 Brush, Warren David
53 Bryan, Ernest Rowlett
49 Bush, George Pollock
60 Clarke, John Maurice
53 Colmen, Joseph G.
51 Cooper, Joseph David
56 Criswell, Howard Donald
50 Daenecke, Eric
63 Decker, Camille E.
62 Deutrich, Bernice Marie
60 Deutrich, Mabel E.
50 Dreis, Thelma Agnes
53 Eastin, Roy Brandon, Jr.
63 Eberle, John Paul
63 Ekpo, Smart Akpan
62 Finley, James Joseph
56 Finnegan, Harold Ellsworth
39 Forthal, Sonya
59 Fotis, Charles William
56 Ghalayini, Khalil A.
60 Greene, Morris Alexander
46 Grover, Wayne Clayton
65 Hall, Chester Gordon, Jr.
65 Harris, Martha Jane
58 Hart, Eugene D.
63 Hasty, Gerald Richard
51 Hattery, Lowell Harold
51 Heath, Kathryn Gladys
51 Held, Walter George
52 Hieronymus, George H.
54 Hunton, Benjamin L.
64 Iskandar, Adnan G.
50 John, Ralph Candler
61 Kaufman, Robert W.
62 Kim, Sun Kil
63 Kleiman, Jacob Myron
56 Krieger, Joseph Leo
60 Kurylo, Walter
61 Lander, Ezra
66 Landrum, Opal Virginia
55 Levine, David D.
60 Levine, Eugene
56 Levine, Milton
53 Lieb, Bernard
58 Lindveit, Earl Wayne
56 MacQuivey, Donald Ross
42 Max, Alfred Raymond
65 McDowell, Bruce Donald
61 Miller, Boulton Bainbridge
49 Montano, Severino Medina
58 Morrill, Chester, Jr.
64 Mustafa, Husain Mohamed
66 Negus, Mildred E.
63 Nishimoto, Kenichi
65 Park, Chung Soo
56 Patrick, Arthur Shepard
66 Patrick, Farrell Gee
62 Posner, Ben
62 Randall, Raymond Lewis
53 Ratliff, Rob Roy
64 Rooney, Walter Richard
65 Rosenthal, Irving
59 Roth, Harold H.
59 Rothman, Sam
46 Rutherford, Geddes William
64 Schreiber, Carl
66 Shuler, Cyril Ovierre
51 Skillington, James Edgar
65 Stevens, Robert David
60 Sugarman, George
50 Sundstrom, John Walker
58 Valdes, William Charles
58 Webster, Robert Lyle
57 Wolle, C. Packard
54 Wood, Thomas L., Jr.
59 Woodward, Lawrence Godfrey

Business Administration - 16

30 Bryan, Leslie Aulls
65 Conrad, Thomas Davidson, Jr.
65 Dulin, William Carter
63 Elia, Souheil E.
63 Fields, David Simeon
64 Gray, Harry Lee
65 Heier, William Dewey
64 Hill, Donald Walter
65 Johnston, Mont Sandels, Jr.
65 Laski, Joseph Stanley
66 Levy, Robert A.
66 Page, Harry Robert
65 Rotkis, Walter Anton
66 Sperry, John Berhart
26 Stevens, Wayne Mackenzie
61 Sweetser, Albert Gibby

Education - 49

64	Adams, Nicholas Aaron
33	Alderman, Lewis Raymond
63	Appell, Harold Leo
66	Arndt, Edward John
58	Beall, Lee Morrett
25	Bell, James Alexander
65	Bryan, John Leland
66	Butcher, James A.
25	Butts, Helen Moon
62	Cabotaje, Arsenia Abellera
62	Cabotaje, Felisberto Viloria
64	Call, Russell John
65	Campbell, Francis Myrl
58	Carpenter, James Walter
61	Copenhaver, Harold Leroy
58	Costa-Minneci Di Villarel, Joyce
30	Cotterman, Harold F.
33	Eckhart, Ruth Alma
64	Egan, Leona Rust
18	Foght, Harold Waldstein
33	Ford, Thomas Benjamin
66	Georgiades, Zenon Efthymiou
61	Gray, Norman Hamblin
62	Handorf, William George
64	Henry, Paul Albert
63	Houk, Marian Mixon
23	Huntzberger, Isaac Witman
66	Kendrick, Solomon Joseph
33	Kephart, Calvin Ira
64	Kerwin, Harry Wayne
59	Key, Norman
31	Kim, Hyun Chul
65	Kraus, Mozelle DeWitte Bigelow
33	Maiden, Arthur Lee
28	Mattern, Louis Wilson
60	Murdoch, Ruth Rittenhouse
65	O'Keefe, Ruth Ann
62	Packard, Duane Leslie
65	Paige, Joseph Clemont
36	Proffitt, Maris Marion
62	Raval, Sushila Navnit
25	Ready, Marie Margaret
66	Rubinowitz, Arthurea Brown
64	Sava, Samuel George
59	Spencer, Mabel Sidell
25	Todd, Helga Colquist
60	Vogel, Albert William
66	Webber, Clemmie Embly
58	Yapko, Benjamin L.

Biology - 13

16	Cates, Junius Sidney
26	Cory, Ernest Neal
32	Fox, Leon A.
19	Hanson, Frank Blair
23	Kelser, Raymond Alexander
28	Kemp, William Beck
26	Kirk, Grover Cleveland
24	Magoon, Charles Alden
24	Middleton, Howard E.
17	Skinner, Joshua John
34	Swenson, T. Lowell
29	Truitt, Reginald Van Trump
23	Weir, Wilbert Walter

Chemistry - 20

31	Bekkedahl, Norman
26	Couch, James Fitton
36	Dahle, Dan
34	Defandorf, James Holmes
34	Feustel, Irvin Carl
36	Foster, Margaret Dorothy
37	Gordon, Willis Owen
30	Greenbank, George Richard
30	Hoffman, James Irvin
28	Howard, Charles Spaulding
32	Hubbard, Donald
34	Jerzykowicz, George
16	Lathrop, Elbert Clyde
36	McKinney, Robert Stevenson
33	Olmstead, Lewis Bertie
37	Reid, John David
24	Riffenburg, Harry Buchholz
30	Sanders, George Patrick
36	Stubbs, Joseph James
27	Wiley, Raymond Clifford

Physics - 3

31	Hidnert, Peter
27	Stowell, Elbridge Zebina
32	Voigt, George Quentin

Mathematics - 5

62	Craw, Alexander Robert
56	Cummins, William Edwin
57	Goldberg, Karl
53	Lieblein, Julius
64	Marshall, Louis Clinton

Statistics - 6

65	Bennett, William Sabin
57	Cisin, Ira Hubert
60	Kurkjian, Badrig Malcolm
60	Patwary, Kamini Mohan
62	Schneiderman, Marvin Arthur
57	Zelen, Marvin

Philosophy - 15

31 Athearn, Clarence Royalty
18 Buhrer, James Daniel
28 Cooper, Peter
31 Danner, Edwin Russell
31 Decker, Ruth Elizabeth
33 Gould, Walter Hollis
37 Lemon, Frank Martin
36 Lenski, Gerhard Emmanuel
18 Lutz, Henry Frey
28 Rowland, Henry Hosie
31 Schaal, Eugene Albert
29 Sinclair, Joseph Clement
32 Smalley, Walter Ivan
34 Smith, Ralph Dela
32 Spanton, William Timothy

Religion - 3

20 Clements, Claudine Elizabeth
19 Nations, Gilbert Owen
29 Waltemyer, William Claude

Law - 39

25 Bowen, Seth Thomas
25 Brown, Walter Alexander
22 Clay, William Lawrence
28 Denit, Louis Malvern
24 de Pena, Hugo V.
22 Donahue, James Lane
27 Dvoulety, Otto
25 Fonbuena, Dedimo Maglaya
23 Hadlick, Paul Emery
22 Hammack, William Thomas
22 Harper, Wilson Forman
25 Hazard, Henry Bernard
23 Holmgren, Samuel Theodore
22 Jones, Rosalie Gardner
21 Keene, Henry Clay
21 Kittich, Zhiroin
21 Koegel, Otto Erwin
27 Lewis, Henry Martyn
22 Lewis, Stuart (also Ph.D. '23)
23 McGuire, Ollie Roscoe
22 Mellon, Harry George
23 Musmanno, Michael Angelo
23 New, Edward Funston
28 Paul, Alice
26 Peck, George Curtis
27 Pergler, Charles
22 Raymond, Lowell William
24 Salsbury, Maurice Edward
18 Sanford, Claude Buren
25 Stegall, Ezekiel Ranson
23 Stewart, Margaret Mary
22 Stickle, Wilmer Franklin
24 Stoner, William Smith
24 Stovall, Bates Mitchell
21 Torvestad, John Nelson
21 Whitney, Edson Leone
28 Womeldorph, Stuart Early
23 Wood, Lester
26 Wyatt, Julien Daniel

Appendix C

Biographical sketches of doctoral graduates, 1916-1966

Biographical sketches of doctoral graduates, 1916-1966, giving degree, year conferred, field, undergraduate and graduate degrees and colleges. Whenever possible the following information is also included: Honors and honorary societies, professional associations, current occupation and address. An asterisk following occupation and/or address indicates last known information without recent confirmation. For graduates who are no longer living, the last or principal occupation is given.

Adams, Nicholas Aaron
Ed D. 1964 Education

BS, MA, University of Florida

Associate Professor, Northeast Louisiana State College

Monroe, Louisiana 71201

Adams, Quincy (Deceased)
Ph D. 1952 Economics

BA, New York University;
MA, American University

Pi Gamma Mu

American Economic Association, American Marketing Association, American Statistical Association, American Association of University Professors

Assistant for Economic Analysis, Air Force Office of Scientific Research, 1961-64

Adham, Mohammed I.
Ph D. 1954 Political Science

College of Law, Baghdad (Iraq); MA, American University

College of Law, Baghdad, Iraq*

Aitchison, Clyde Bruce (Deceased)
Ph D. 1932 Economics

BS, Hastings College (Nebraska); AM, University of Oregon

LL D, Hastings College (1918), LL D, University of Oregon (1937), American University Alumni Recognition Award (1954), Phi Beta Kappa, Pi Gamma Mu, Phi Alpha Delta

Admitted to bar: Oregon, Iowa, U.S. Supreme Court, American Bar Association, American Economic Association, American Society of Traffic and Transportation (Founder Member), Newcomen Society of Great Britain

Member and Chairman (four terms), Interstate Commerce Commission, 1917-52

Alam, Abdel Raouf Abu
Ph D. 1956 International Relations and Organization

B. Sc., Cairo University (Egypt); MA, American University

c/o Ministry of Higher Education, Magomsa Street, 7th Floor, Cairo, U.A.R.

Alderman, Lewis Raymond
Ph D. 1933 Education

BA, University of Oregon

U.S. Office of Education, Specialist in adult education; Director, Division of Education, Works Progress Administration; Consultant; 1925-43, retired

Aldridge, Frederick Stokes
Ph D. 1964 History

BA, Colgate University;
MA, American University

American Historical Association

Professor, History and Chairman, Division of Social Science, Jacksonville University, 1965—

1555 Selva Marina Drive, Atlantic Beach, Florida

Alexander, A. John
Ph D. 1951 History

BA, University of Rochester

Intelligence Consultant, Defense Intelligence Agency

1417 Martha Custis Drive, Alexandria, Virginia 22302

Alexander, Thomas Ley
Ph D. 1964 International Relations

AB, University of Florida; MA, Duke University

Director, Public Affairs, Cape Cod Community College and Chairman, History and Social Sciences Division, 1965—

Box 127, Hyannis, Massachusetts

Allen, Edith Louise (Deceased)
Ph D. 1928 Economics

AB, University of Illinois;
MA, Columbia University

Allen, Edward Lawrence
Ph D. 1948 Economics

BS, Columbia University;
MA, American University

American Economic Association, American Society for the Study of Soviet Type Economies

Senior Executive Officer, Central Intelligence Agency, 1953—

6028 Woodley Road, McLean, Virginia 22101

Allen, Philip James
Ph D. 1954 Sociology

AB, Ohio Northern University; MA, Northwestern University; BD, Garrett Theological Seminary

National Council on Family Relations (Board of Directors), Virginia Council on Family Relations (President), American Sociological Association (Membership Committee and Research Committee), Population Association of America, American Academy of Political and Social Science, Southern Sociological Society, Eastern Sociological Society, D.C. Sociological Society, Society for Study of Social Problems

Professor and Chairman, Sociology, Mary Washington College of University of Virginia, 1947—

6 Nelson Street, Fredericksburg, Virginia 22401

Allensworth, Don Trudeau

Ph D. 1964 Government

BA, Ohio Wesleyan University; MBA, Ohio State University; MA, American University

American Political Science Association

Assistant Professor, Political Science, George Washington University, 1966—

5306 Hampden Lane, Bethesda, Maryland

Altland, Norman Richard

Ph D. 1965 Psychology

BA, Franklin and Marshall College; MA, American University

Psi Chi, Pi Gamma Mu

American Association for the Advancement of Science, D.C. Psychological Association, American Association of University Professors, American Personnel and Guidance Association, American Psychological Association, Association for Counselor Education and Supervision, Association for Measurement and Evaluation (State Membership Chairman)

Chairman, Psychology, Florida Southern College, 1967—

Lakeland, Florida 33802

Anderson, Carl Dicmann

Ph D. 1960 History

BTh, BA, Pacific Union College; MA, Andrews University

Supervisory Laboratory Teacher, Andrews University, 1966—

Box 212, AU Station, Andrews University, Berrien Springs, Michigan 49104

Appell, Harold L.

Ph D. 1963 Education

BS, Northwestern University; MA, University of Illinois

American Psychological Association, American Semantics Association, Illinois Psychological Association

Psychologist, self employed (therapy and testing), 1961—

2034 Avondale Lane, Wilmette, Illinois

Apstein, Maurice

Ph D. 1963 Public Administration

BS, College of the City of New York, M.E.A., George Washington University

Associate Technical Director, Harry Diamond Laboratories, U.S. Army Materiel Command

4611 Maple Avenue, Bethesda, Maryland

Aridi, Bashir A.

Ph D. 1956 Government

BS, MS, Utah State Agricultural College

Assistant Professor, Political Studies, American University of Beirut

Beirut, Lebanon

Arndt, Edward John

Ed D. 1966 Education

BD, Concordia Seminary; MA, Washington University

Phi Delta Kappa

National Education Association, Virginia Education Association, Comparative Education Society

Assistant Principal for Instruction, J.E.B. Stuart High School, 1959—

6822 Valley Brook Drive, Falls Church, Virginia 22042

Athearn, Clarence Royalty (Deceased)

Ph D. 1931 Philosophy

BRE, MRE, MA, Boston University

American Association of University Professors, American Sociological Association, American Academy of Political and Social Science, National Mental Hygiene Association

Director, Ohio University branch, State Bureau of Juvenile Research, 1948-1952

Atkins, George Pope

Ph D. 1966 International Relations

BA, University of Texas; MA, American University

Assistant Professor, U.S. Naval Academy, 1966—

34 Decatur Avenue, Bay Ridge, Maryland 21403

Atwater, Francis Elton

Ph D. 1940 International Relations and Organization

AB, University of Rochester; MA, American University

American Political Science Association, Society for International Law

Professor, Political Science, Pennsylvania State University, 1950—

450 East Irvin Avenue, State College, Pennsylvania

Austin, Henry

Ph D. 1957 International Relations and Organization

BA, University of Travancore (India); MA, American University

Advocate, ERNAKULEM, Keralastate, India*

Ayoubi, Mohamed Sadek

Ph D. 1952 Economics

Licentiate of Law, Syrian University (Damascus)

Bacus, Horace Allen

Ph D. 1936 Government

BA, MA, Texas Christian University

Bahrampour, Firouz
Ph D. 1964 International Relations and Organization
BA, MA, American University
Associate Professor, Political Science and International Relations, Texas Wesleyan College, 1964—
4909 E. Lancaster, Fort Worth, Texas 76103

Bain, Chester Arthur
Ph D. 1956 History
AB, MA, Columbia University
Association for Asian Studies, American Political Science Association, American Historical Association
Foreign Service Officer, United States Information Agency, 1959—
931 North Van Dorn Street, Apt. 300, Alexandria, Virginia 22304

Barber, Theodore Xenophon
Ph D. 1956 Psychology
BA, American University
American Psychological Association, Society for Clinical and Experimental Hypnosis
Research Associate, Medfield Foundation and Research Associate, Psychiatry, School of Medicine, Boston University, 1959—
3 Solon Street, Wellesley, Massachusetts 02181

Barmby, John Glennon
Ph D. 1957 Public Administration
AB, Middlebury College; SB, Massachusetts Institute of Technology; MA, George Washington University
Licensed Professional Engineer, American Institute of Aeronautics and Astronautics (Associate Fellow), American Society for Public Administration
Senior Staff and Project Leader, I.I.T. Research Institute, 1964—
924 Fairway Drive, N.E., Vienna, Virginia 22180

Barnard, Bernard Lester (Deceased)
Ph D. 1949 Political Science
BA, MA, University of Kansas
Research Director, International Association of Assessing Officers, 1965-66

Barrett, Robert Alan
Ph D. 1965 Government
BA, Hamline University;
MA, American University
Minnesota Academy of Science (Chairman, Political Science Section), American Political Science Association
Chairman, Associate Professor, Political Science, Mankato State College, 1963—
2110 Roe Crest Court, North Mankato, Minnesota 56001

Bass, Charles White
Ph D. 1954 International Relations and Organization
AB, MA, George Washington University
American Political Science Association, American Foreign Service Association
International Economist, Department of State, 1966—
3523 Devon Drive, Falls Church, Virginia

Bavand, Davoud Hermidas
Ph D. 1964 International Relations and Organization
Bachelor of Law, University of Teheran (Iran)
Teaching, University of Teheran*

Beall, Lee Morrett
Ed D. 1958 Education
BA, American University; M Ed., University of Maryland, MA, Appalachian State Teachers College
American University Honor Society
American Guild of Organists, International Heinrich Schuts Society
Faculty member, Morehead State College, 1968—
Box 417, Morehead, Kentucky 40351

Beckler, Bernard Saul
Ph D. 1964 Economics
AB, George Washington University
10122 Renfrew Road, Silver Spring, Maryland*

Beede, Kenneth Charles (Deceased)
Ph D. 1944 Economics
BA, George Washington University;
MBA, Harvard

Bekkedahl, Norman
Ph D. 1931 Chemistry
BS, University of Minnesota; MS, George Washington University
Charles Goodyear Award from Division of Rubber Chemistry of the American Chemical Society (1967), Superior Performance (Silver Medal) from U.S. Department of Commerce, Alpha Chi Sigma, Sigma Xi
American Chemical Society (Chairman Admissions Committee, 1953), Chemical Society of Washington (President, 1942), American Association for the Advancement of Science (Fellow), Washington Academy of Sciences (Chairman Scientific Achievement Awards Committee, 1961), Philosophical Society of Washington
Deputy Chief, Polymers Division, National Bureau of Standards
4825 45th Street, N.W., Washington, D.C., 20016

Bell, James Alexander (Deceased)
Ph D. 1925 Education

BA, Grove City College; BA, Harvard; LL B, Southeastern University; MA, American University

District Bar Association, American Bar Association

President, Southeastern University, (District of Columbia), 1921-46

Bennett, William Sabin
Ph D. 1965 Statistics

BA, Williams College; MA, Duke University

Phi Beta Kappa, Sigma Pi Sigma

National Panel of Arbitrators, American Arbitration Association, New York Academy of Sciences, American Association for the Advancement of Science, Operations Research Society of America, American Statistical Association, Institute of Mathematical Statistics

Senior Operations Analyst, Stanford Research Institute, 1961—

834 The Dalles, Sunnyvale, California 94087

Benton, Frederick Leslie (Deceased)
D Sci. 1925 History

BA, Temple University; AM, St. John's (Annapolis); MA, American University; MD, Columbia University

U.S. Navy, retired; Physician, Washington, D.C.

Berbano, Eunuel Valdez
Ph D. 1962 Public Administration

BA, MA, College of the Pacific

713 Monada Lane, Stockton, California 95207

Berkhouse, Rudolph G.
Ph D. 1965 Psychology

BS, Ohio State University

Psi Chi

Psychometric Society, American Psychological Association, District of Columbia Psychological Association, Virginia Psychological Association

Chief, Research Operations Branch, Army Research Office, Department of the Army, 1966—

437 Monticello Blvd., Alexandria, Virginia 22305

Berman, Sylvan M.
Ph D. 1962 International Relations and Organization

AB, University of Michigan;
MA, American University

Pi Sigma Alpha

American Political Science Association, American Association of University Professors, American Society of International Law

Associate Professor, Institute of International Law and Relations, Catholic University, 1966—

3143 Adams Mill Road, N.W., Washington, D.C. 20010

Bhansali, Krishnaprasad Girdharlal
Ph D. 1962 International Relations and Organization

Diploma, Visva-Bharati University (India)

Political Science, Texas Southern University*
Houston, Texas

Permanent: Mahudha, via Nadiad, Kaira, State of Gujarat, India*

Blackstock, Paul William
Ph D. 1954 International Relations and Organization

BA, University of Colorado

Professor, International Studies, University of South Carolina

1604 Adger Road, Columbia, South Carolina

Blair, John M.
Ph D. 1941 Economics

BA, Tulane University; MA, American University

Chief Economist, Senate Subcommittee on Anti-Trust and Monopoly Legislation, U.S. Congress

Star Route 3, La Plata, Maryland

Bloom, Max Robert
Ph D. 1959 Economics

BSS, City College of New York; Certificate, New School for Social Research

American Economic Association

Associate Professor and Chairman, Real Estate and Urban Development, College of Business Administration, Syracuse University, Syracuse, New York

Blue, John Titus
Ph D. 1958 Sociology

BA, MA, University of Michigan

Rockefeller Foundation Fellow

Chief, Division of Program Experimentation, U.S Department of Labor, 1966—

7419 16th Street, N.W., Washington, D.C.

Bluestone, David Wolf
Ph D. 1953 Economics

BS in ME, New York University; MA, American University

Transportation Research Forum, American Society of Traffic and Transportation (Membership Committee)

Vice President, Systems Analysis and Research Corporation, 1966—

9039 Sligo Creek Parkway, Silver Spring, Maryland 20901

Bock, Robert Leroy
Ph D. 1960 Government

AB, MA, University of Kansas; LL B, Washburn University

Pi Sigma Alpha, Delta Theta Phi

American Political Science Association, American Association of University Professors, Midwestern Political Science Association, Association for Asian Studies, Southwestern Political Science Association, Southern Political Science Association, American Academy of Political and Social Science, American Historical Association, American Economic Association, Academy of Political Science, International Studies Association, American Society for Public Administration, American Society for Political and Legal Philosophy, American Society for Evolutionary Economics, New York State Political Science Association, former member D.C. Bar Association

Professor III, American Government, Theory and Public Administration, State University College, Oswego, New York, 1965—

Ridgeway Sites, RD 5, Oswego, New York 13126

Bogman, James H. Beals (Deceased)
Ph D. 1933 Economics

BA, George Washington University; MBA, Harvard University

Bolster, Richard Lovell
Ph D. 1966 Economics

BS, American University; MBA, New York University

American Economic Association, American Finance Association, American Statistical Association, The Washington Society of Investment Analysts

Associate Professor, American International College, 1964—

212 Paynnwood Road, Longmeadow, Massachusetts 01106

Bonnell, Helen Marie (Mrs. Herbert Butt)
Ph D. 1957 International Relations and Organization

BA, Maryville College of Sacred Heart; MA, American University

Extension Education Institute, Nilokheri, Haryana, India

Bornstein, Harry
Ph D. 1954 Psychology

AB, Rutgers University; AM, Fordham University

American Association for the Advancement of Science, American Psychological Association, Psychometric Society

Research Professor, Psychology, and Director, Office of Institutional Research, Gallaudet College (D.C.)

5825 Folkstone Road, Bethesda, Maryland 20034

Bowen, Seth Thomas (Deceased)
DCL 1925 Law

AB, Valparaiso University; LL B, LL M, National University

Principal Examiner, U.S. Patent Office

Bransford, Thomas Lowe (Deceased)
Ph D. 1940 Psychology

AB, University of Washington;
MA, American University

American Psychological Association, American Statistical Association, American Society for Public Administration, Public Personnel Association

Director of Examinations, New York State Civil Service Department, 1947-69

Breakey, Herbert A. (Deceased)
Ph D. 1934 Economics

BS, MS, University of Denver

Chief, Requirements Section, Munitions Board, Department of Defense, 1949-60

Breimyer, Harold Frederick
Ph D. 1960 Economics

BS, MS, Ohio State University

Superior Service Award, U.S. Department of Agriculture (1954), Performance Award (group), U.S. Department of Agriculture (1959), Award, best article, Journal of Farm Economics (1954, 1957, 1962), Certificate of Merit, Agricultural Marketing Service (1963)

American Farm Economic Association (Vice President, 1963-64)

Staff Economist, U.S. Consumer and Marketing Service, U.S. Department of Agriculture, 1961—

1616 Princeton, Columbia, Missouri 65201

Brijbhushan
Ph D. 1965 Public Administration

BA, MA, Allahabad University (India)

Broder, Simon
Ph D. 1960 Government

ME, Cornell; AM, LL B, George Washington University; MPL, American University

Member of Bars of U.S. Supreme Court, New York and District of Columbia, Honorary Member of Bar of Arkansas

Patent Office Society

Examiner, U.S. Patent Office

1463 Primrose Road, N.W., Washington, D.C. 20012

Brodsky, Nathan
Ph D. 1959 Economics

BS, Temple University

American Economic Association

Director of Logistics Planning, Department of Defense*

2840 Lorcom Lane, Arlington, Virginia*

Brody, Grace Freidson
Ph D. 1963 Psychology

BS, Columbia University; M Ed., University of Maryland

Associate Professor, School of Applied Social Sciences, Case Western Reserve University

2499 Overlook Rd., Cleveland Heights, Ohio 44106

Brown, Alice Mary (Mrs. Correll)
Ph D. 1933 Political Science

BA, MA, University of Utah

Retired, Consular Affairs Officer, Department of State

921 E. Capitol Boulevard, Salt Lake City, Utah 84103

Brown, Donald Perl
Ph D. 1952 Public Administration

BA, MA, Northwestern University

Society for Public Administration, American Academy of Political and Social Science.

Associate Professor, Political Science, Illinois Wesleyan University*, Bloomington, Illinois 61701

Brown, Janet Welsh
Ph D. 1964 International Relations and Organization

BA, Smith College; MA, Yale University

Association for Asian Studies

Assistant Professor, Political Science, Federal City College, 1968—

1438 Iris Street, N.W., Washington, D.C. 20012

Brown, Walter Alexander
DCL 1925 Law

LL B, Georgetown University

Brown, William Henry
Ph D. 1959 Government

Certificate, University of Pennsylvania; LL B, Rutgers University (U. of Newark Law School); MA, Georgetown University

Certified public accountant in Pennsylvania, New York, California; Member of the bar in Kentucky, Supreme Court of the United States, Tax Court of the United States.

Retired, Attorney.

4613 College Avenue, College Park, Maryland 20740

Browning, Rufus C.
Ph D. 1955 Psychology

BA, Illinois College; MPS, University of Colorado

Phi Delta Kappa

American Psychological Association, Maryland Psychological Association, District of Columbia Psychological Association, National Education Association

Assistant Superintendent, Personnel, D.C. Public Schools, 1963—

2213 Parker Avenue, Silver Spring, Maryland 20902

Brush, Warren David
Ph D. 1930 Public Administration

BS, Baldwin-Wallace College; MA, University of Michigan

10921 Bangor Place, Kensington, Maryland

Bryan, Ernest Rowlett (Deceased)
Ph D. 1953 Public Administration

AB, Syracuse University; AM, George Washington University

Litt. D, Whitworth College (1949), Zeta Psi, Phi Kappa Phi, Pi Gamma Mu, Pi Delta Epsilon, International Society of Christian Endeavor (President)

National Education Association

Head, Project Supervision, Motion Picture and Training Films Production, U.S. Navy Department, 1946-54

Bryan, John Leland
Ed. D. 1965 Education

BS, MS, Oklahoma State University

Phi Kappa Phi, Iota Lambda Sigma, Psi Chi, Kappa Delta Pi, Phi Delta Kappa

National Fire Protection Association, American Society for Testing and Materials, American Association of University Professors, American Society for Engineering Education, American Association for the Advancement of Science

Professor and Head, Fire Protection, University of Maryland, 1965—

11700 Mentone Road, Silver Spring, Maryland 20906

Bryan, Leslie Aulls
Ph D. 1930 Business Administration

BS, MS, LL B, Syracuse University

Beta Gamma Sigma, Phi Kappa Phi, Alpha Kappa Psi, FAA Distinguished Service Award, Brewer Award from President Eisenhower, CAP Distinguished Service Award

American Association of Airport Executives (Past President), National Aerospace Education Council, University Aviation Association

Professor, Management, and Director, Institute of Aviation, University of Illinois, 1946—

1016 West John Street, Champaign, Illinois 61820

Buck, James Harold
Ph D. 1959 History

AB, University of Washington, AM, Stanford University

Phi Beta Kappa, Pi Sigma Alpha, Phi Alpha Theta

American Historical Association, Association for Asian Studies

Associate Professor, Social Science, United States Military Academy, West Point, 1965—

Qtrs. 244, USMA, West Point, N.Y. 10996 (permanent; c/o H C Jeffers, Sharon Valley Road, RTE # 3, Newark, Ohio)

Budhraj, Vijay Sen
Ph D. 1958 International Relations and Organization

BA, MA, University of the Punjab (India)

Reader, Political Science, Kurukshetra University Kurukshetra, The Panjab, India

Buhrer, James Daniel (Deceased)
Ph D. 1918 Philosophy

BA, MA, Calvin College

Bullockus, Theodore
Ph D. 1955 International Relations and Organization

BA, MA, George Washington University

Operations Research Society of America, American Economic Association, American Farm Economic Association, The Institute of Management Sciences

Associate Director, Organization for Development Assistance Programs, Northrop Corporation, 1966—

208 Adelaide Drive, Santa Monica, California 90402

Burgess, Philip Mark
Ph D. 1965 International Relations

BA, Knox College

Fulbright Graduate Fellow (1963-64), NATO Research Fellow (1966-67), American Philosophical Society Research Award (1966-67) Mershon Post-Doctoral Fellow (1965-66)

American Political Science Association, National Council of Social Studies, Midwest Conference of Political Scientists, International Studies Association

Assistant Professor, and Director, Behavioral Sciences Laboratory, Ohio State University, 1966—

1054 Westborough Dr., Columbus, Ohio 43221

Burk, Monroe
Ph D. 1950 Economics

BS, College of the City of New York; MBA, Harvard University

Special Assistant, USAID, Pakistan

Burrows, Robert Newton (Deceased)
Ph D. 1933 Economics

BA, University of Texas; MA, University of Wisconsin

Burton, Jr., Robert Bentley
Ph D. 1963 Area Studies

BA, MA, Wayne State University

Association of the United States Army, Disabled Officers Association

Senior Intelligence Research Specialist, Eastern European Economic and Political Affairs, HQ USAREUR, Heidelberg, 1966—

810 3rd Street, S.W., Washington, D.C.

Bush, George Pollock
Ph D. 1949 Public Administration

MBA, Harvard; MA, American

Pi Sigma Alpha, Pi Gamma Mu

American Association for the Advancement of Science, American Association of University Professors, American Documentation Institute, History of Science Society, Institute of Electrical and Electronics Engineers

Professor Emeritus, Government and Public Administration, American University 1948—

5415 Beech Avenue, Bethesda, Maryland 20014

Butcher, James Alvin
Ed D. 1966 Education

BA, Glenville State College, MA, West Virginia University

Phi Delta Kappa

National Education Association, Association for Student Teaching, American Association of School Administrators

President, Shepherd College, 1968—

216 West Main, Shepherdstown, West Virginia 25443

Butts, Helen Moon (Deceased)
Ph D. 1925 Education

BS, Eastern College; AB, MA, George Washington University

World Federation of Education Association (Officer)

District of Columbia Public Schools, retired 1937

Byrd, Jr., Elbert M.
Ph D. 1959 Government

BS, MA, American University

District of Columbia Political Science Association, American Political Science Association, National Region Conference on Politics

Associate Professor, Government and Politics, University of Maryland, 1957—

4510 Sheridan Street, Riverdale, Maryland 20840

Cabotaje, Arsenia Abellera
Ed D. 1962 Education

BA, Union Theological Seminary (Manila); BRE, MRE, The Biblical Seminary (N.Y.); BSE, Union College of Manila; MA, Northwestern University

National Council of Teachers of English, American Association of University Professors

Professor, English, Bethune-Cookman College

1396 Sunland Road, Daytona Beach, Florida 32019

Cabotaje, Felisberto Viloria
Ed D. 1962 Education

BA, University of Minnesota; BD, Garrett Theological Seminary; BSE, Union College of Manila; MA, Northwestern University

National Education Association, American Association of University Professors

Professor and Chairman, Social Science, Bethune-Cookman College

1396 Sunland Road, Daytona Beach, Florida 32019

Caemmerer, H. Paul (Deceased)
Ph D. 1938 History

BA, MA, George Washington University; LL B, Georgetown University

American Society of Architectural History, Archaeological Institute of America

Secretary, National Commission on Fine Arts, 1922-54

Call, Russell John
Ed D. 1964 Education

B Ed., Plymouth Teachers College; MA, George Washington University

National Education Association, National Council of Teachers of Mathematics, N.H. Section of Association of Teachers of Mathematics in New England (Vice President)

Assistant Professor, Mathematics, Central Connecticut State College, 1966—

98 Colonial Court, Plainville, Connecticut 06062

Campbell, Francis M.
Ed D. 1965 Education

BS, State Teachers (Indiana, Pa.); MA, George Washington University

Phi Delta Kappa

American Personnel and Guidance Association (Chairman, Special Programs 1966 Convention)

Guidance Director, Yorktown High School, Arlington, Virginia, 1966—

4301 Columbia Pike, #235, Arlington, Virginia 22204

Cannon, M. Hamlin
Ph D. 1950 History

AB, MA, George Washington University

American Historical Association, Organization of American Historians

Chief Historian, U.S. Air Force Academy, 1961—

1410 Hollyhock Drive, Colorado Springs, Colorado 80907

Cannon, William John
Ph D. 1959 Psychology

Diploma, Newbold Missionary College (England); MA, Seventh Day Adventist Theological Seminary

Chairman, Behavioral Science Department, Columbia Union College (Md.); Private Practice

8113 Carroll Avenue, Takoma Park, Maryland 20012

Capps, Robert Grimes
Ph D. 1964 Sociology

BS, College of William and Mary; MA, American University

American Association of University Professors, American Sociological Association, Southern Sociological Society, Society for the Scientific Study of Religion

Chairman, Department of Social Science, Atlantic Christian College

404 North Kincaid Avenue, Wilson, North Carolina 27893

Carpenter, Bruce Rogers
Ph D. 1964 International Relations and Organization

AB, MA, University of California at Los Angeles

Geographer, United States Government*

6109 Temple Street, Bethesda, Maryland*

Carpenter, James Walter
Ed D. 1958 Education
BA, Milligan College; M. Th., Ph D., Southern Baptist Theological Seminary
Professor, Religion and Education, Baptist College
1289 Winchester Drive, Charleston, South Carolina

Carroll, Frank Samuel
Ph D. 1938 Economics
BS, MBA, University of Washington; MS, Columbia University
Beta Gamma Sigma, Chi Psi Omega
Registered Professional Engineer, American Economic Association, American Academy of Political and Social Science
Retired from Federal government 1965; parttime consultant
3615 Chesapeake Street, N.W., Washington, D.C. 20008

Carroll, Thomas Fitzgerald (Deceased)
Ph D. 1923 Political Science
AB, Randolph-Macon; AM, University of Virginia
DD, Randolph-Macon
Methodist Minister and District Superintendent

Cates, Junius Sidney (Deceased)
Ph D. 1916 Biology
BS, MS, North Carolina State College
Honorary Doctor of Agriculture, University of North Carolina (1939), Alpha Zeta, Phi Kappa Phi
American Association for the Advancement of Science, American Society of Agronomy
Staff Writer, *Country Gentleman*, Philadelphia

Chang, Teh-Kuang
Ph D. 1966 International Relations
BA, National Amoy University (China); MA, University of Washington
Pi Sigma Alpha, Pi Gamma Mu
American Political Science Association, American Society of International Law, American Association of University Professors, Association for Asian Studies
Assistant Professor, Political Science, Ball State University, 1966—
615 Wayne St., Muncie, Indiana 47303

Chatti, Bourhan Taher
Ph D. 1957 Economics
Licentiate in Law, Syrian University
Ministry of Finance, Damascus, Syria*

Chen, I. Husuan Julia
Ph D. 1942 Sociology
BA, Hwa Nan (China); MA, American University
Chairman, Far East Division, Defense Language Institute, East Coast Branch, U.S. Naval Station, Anacostia
2710 Fort Baker Drive, S.E., Washington, D.C. 20020

Choffy, S. Clark
Ph D. 1960 International Relations and Organization
BA, Colgate University; MA, American University
Associate Professor, Social Science, Southeast Missouri State College
Cape Girardeau, Missouri
Permanent: 202 Bergen Avenue, Jersey City, New Jersey

Chung, Han-Pom
Ph D. 1952 International Relations and Organization
M. Sci., University of Cambridge (England); Docteur-es-Sciences Politiques et Economiques, Fribourg (Switzerland)

Chung, Henry
Ph D. 1921 International Relations and Organization
AB, AM, University of Nebraska

Chung, In Teak
Ph D. 1966 Area Studies
BA, Southwest Missouri State College; MA, Miami University (Ohio)
Assistant Professor, Political Science, University of Alabama, 1966—
7 A Read Street, Tuscaloosa, Alabama

Cisin, Ira Hubert
Ph D. 1957 Statistics
BS, New York University; MA, American University
Professor, Sociology, George Washington University
6828 Wilson Lane, Bethesda, Maryland 20034

Clarke, John Maurice
Ph D. 1960 Public Administration
BS, MA, American University
Director, Plans and Programs, Central Intelligence Agency
6245 N. Kensington Street, McLean, Virginia 22101

Clay, William Lawrence
DCL 1922 Law

LL B, MPL, LL M, Georgetown

International Bar Association, American Bar Association, American Judicature Society, New York State Bar Association, Monroe County Bar Association, Federal Bar Association, Member of the Bar of the Supreme Court of the United States, District of Columbia, Virginia, United States District Courts for Western District of New York, and for Northern District of New York

General Law Practice

1105 South Main Street, East Rochester, New York 14445

Clem, Alan Leland
Ph D. 1960 Government

BA, University of Nebraska; MA, American University

American Political Science Association, Midwest Conference of Political Science, Political Science Association of New York, American Academy of Political and Social Science

Professor, Government and Associate Director, Governmental Research Bureau, University of South Dakota, 1964—

902 Valley View, Vermillion, South Dakota 57069

Clement, Clarence Elbert
Ph D. 1931 Economics

BS, University of New Hampshire; MA, American University

Retired, Marketing Specialist, Department of Agriculture

P.O. Box 328, St. Petersburg, Florida

Clements, Claudine Elizabeth (Deceased)
Ph D. 1920 Religion

BA, Wellesley College; MA, American University

Faculty, National Cathedral School for Girls, 1917-50

Clickner, Edwin Kirwan
Ph D. 1963 Economics

BS, MA, American University

Assistant Professor, Business Administration, University of Maryland

7513 Wellseley Drive, College Park, Maryland

Colmen, Joseph G.
Ph D. 1953 Public Administration

BS, City College of New York; MA, Columbia University

Deputy Assistant Secretary for Education, Department of Health, Education and Welfare; Director, Urban Curriculum Project, The Urban Center, Columbia University, 1969—

New York City, New York 10027

Colmen, Kenneth Seymour
Ph D. 1956 Economics

BAE, Georgia Institute of Technology; MBA, Cornell

President, AMF Thermatool, (N.Y.), 1964—

104 Highline Trail, Stamford, Connecticut

Colwell, James Morrison
Ph D. 1961 Psychology

BA, Princeton; MA, Catholic University

Fulbright lectureship in Brazil (March 1963-June 1964)

American Psychological Association, American Catholic Psychological Association, American Association of University Professors

School Psychologist, San Francisco Unified School District

2660 California Street, San Francisco, California 94115

Conrad, Jr., Thomas Davidson
Ph D. 1965 Business Administration

BA, MBA, University of Maryland

CFA, Society of Chartered Financial Analysts, Washington Society of Investment Analysts, President, Conrad and Company (Financial management), 1965—

3919 Commander Drive, College Heights Estates, Hyattsville, Maryland 20782

Cooper, Chester Lawrence
Ph D. 1959 Economics

BS, MBA, New York University

American Economic Association, Asian Society

Director, International and Social Studies Division, Institute for Defense Analyses, 1967—

7514 Vale Street, Chevy Chase, Maryland 20015

Cooper, Joseph David
Ph D. 1951 Public Administration

BA, George Washington University; MA, American University

American Society for Public Administration, American Political Science Association

Professor, Government, Howard University

2810 Blaine Drive, Chevy Chase, Maryland 20015

Cooper, Morton
Ph D. 1958 Psychology

AB, Rutgers; MS, City College of New York

American Psychological Association

Clinical Psychologist, Montgomery County Mental Health Center

604 Sisson Street, Silver Spring, Maryland

Cooper, Peter
Ph D. 1928 Philosophy
AB, MA, Hope College
Professor, Economics, Le Moyne College
835 Walker Avenue, Memphis, Tennessee 38126

Copenhaver, Harold Leroy
Ph D. 1961 Education
BA, MA, American University
Professor, Music Education, Northeast Missouri State Teachers College
28 Kellwood Drive, Kirksville, Missouri 63501

Coplin, William David
Ph D. 1964 International Relations and Organization
BA, Johns Hopkins; MA, American University
Mid-West International Studies Association (Secretary)
Assistant Professor, Wayne State University, 1964—
19341 Coyle, Detroit, Michigan 48235

Cory, Ernest Neal
Ph D. 1926 Biology
AB, Harvard University; MS, American University
Emeritus Professor, Entomology, University of Maryland
4710 College Avenue, College Park, Maryland 20740

Costa-Minneci Di Villarel, Joyce (Mrs. Bartlett)
Ed D. 1958 Education
BA, MA, American University
3 Amsterdam Avenue, Kingston, New York 14201

Cotterman, Harold F. (Deceased)
Ph D. 1930 Education
BS, Ohio State University; MA, Columbia University
Phi Kappa Phi
National Education Association, American Association of University Professors, American Vocational Association, Association for the Advancement of Agricultural Teaching (President)
Dean of the Faculty; Professor, Agricultural Education, University of Maryland 1917-57

Cottle, Charles Sidney
Ph D. 1946 Economics
BA, Whitman College; MBA, Stanford University
Senior Financial Economist, Stanford Research Institute; Lecturer in Finance, Graduate School of Business, Stanford University, 1958—
12300 Melody Lane, Los Altos Hills, California 94022

Couch, James Fitton (Deceased)
Ph D. 1926 Chemistry
AB, Harvard University; MA, American University
American Association for the Advancement of Science, American Chemical Society
Research Chemist, Bureau of Chemistry, Regional Office (Philadelphia), Department of Agriculture, 1917-51

Couloumbis, Theodore Alexander
Ph D. 1964 International Relations and Organization
BA, MA, University of Connecticut
Pi Sigma Alpha
American Political Science Association, American Military Government Association, Armed Forces Management Association
Associate Professor, Acting Associate Dean, School of International Service, American University, 1965—
4701 Kenmore Road, Apt. 804, Seminary Towers, Alexandria, Virginia

Coyne, Michael John
Ph D. 1965 International Relations
BA, University of Colorado; MA, American University
13112 Moss Ranch, Fairfax, Virginia 22030

Crandall, Burton Benjamin
Ph D. 1955 Economics
AB, University of California (Berkeley); MBA, Harvard
Pi Gamma Mu, Delta Nu Alpha
American Economic Association, American Marketing Association, American Society of Traffic and Transportation, New York State Association of Junior Colleges, American Association of University Professors
Professor, Business Administration, Alfred State Agricultural and Technical College, 1965—
5 Sayles Street, Alfred, New York 14802

Craw, Alexander Robert
Ph D. 1962 Mathematics
BS, DePaul University; MS, University of Notre Dame; Prof. Certificate, University of Chicago
Society for Industrial and Applied Mathematics, Operations Research Society of America, American Meteorological Society
Chief, Applied Mathematics Branch, Biomathematics Division, U.S. Army, Fort Detrick, Maryland
330 West College Terrace, Frederick, Maryland 21701

Crawford, Arthur Whipple
Ph D. 1940 Economics

AB, Beloit College; MA, American University

American Economic Association, American Finance Association

Retired, Member of Research Staff, Tax Foundation, Inc., 1950-61; Retired, Chamber of Commerce of the United States

6925 Woodside Place, Chevy Chase, Maryland 20015

Criswell, Howard Donald
Ph D. 1956 Public Administration

BA, MA, George Washington University

Colonel, United States Army, Retired, City Manager, Potomac Heights, Maryland, Retired.

5711 Nebraska Avenue, Washington, D.C. 20015

Cummins, William Edwin
Ph D. 1956 Mathematics

BS, Webb Institute of Naval Architecture

American Mathematical Society, Society of Naval Engineers, Society of Naval Architecture and Marine Engineering, Association Technique Maritime et Aeronautique, International Towing Tank Conference

Laboratory Head, David Taylor Model Basin, 1963—

11809 Galt Avenue, Wheaton, Maryland 20902

Daenecke, Eric
Ph D. 1950 Public Administration

BS, MA, American University; LL B, Mt. Vernon Law School; LL M University of Manila; DCL, University of Santo Tomas (Manila)

Distinguished alumnus award, University of Manila (1966)

American Bar Association, Federal Bar Association, American Society of International Law, Inter-American Bar Association, American Economic Association, American Institute of Certified Public Accountants, American Accounting Association, American Society for Public Administration

Public Administration Adviser, Department of State, USAID, 1957—

c/o USAID/PAD APO San Francisco, California 96243

Dahle, Dan
Ph D. 1936 Chemistry

Ch E., Chalmers Institute of Technology (Sweden); MS, American University

Elected first honorary member of Society of Cosmetic Chemists. American Chemical Society, Society of Cosmetic Chemists, Association of Official Agricultural Chemists

Retired, Director of Research, Bristol-Meyers Co., 1946-57; Adjunct Professor, Chemistry, Florida Institute of Technology

340 Del Mar Avenue, Melbourne, Florida 32901

Dajany, Omar
Ph D. 1956 International Relations and Organization

BA, American University of Beirut (Lebanon)

Special Assistant to the President, World Bank and International Finance Corporation

1201 South Scott Street, Arlington, Virginia

Danner, Edwin Russell
Ph D. 1931 Philosophy

AB, Elizabeth College; AM, University of Pennsylvania

National Education Association, Pennslyvania State Education Association

Teacher, Industrial English, William Penn Senior High School

34 N. Main Street, Spring Grove, Pennslyvania 17362

Darling, Frank Clayton
Ph D. 1961 Government

BA, Principia College; MA, University of Chicago

American Political Science Association, Association for Asian Studies

Professor and Head, Political Science, DePauw University, 1967—

714 Dogwood Lane, Greencastle, Indiana 46135

Darwish, Ibrahim Mohamed Mostafa
Ph D. 1965 International Relations

Licence en droit, Alexandria University (Egypt); Diploma of Administrative and Financial Sciences, Cairo University (Egypt)

1 Omer Bakir Street, Heliopolis, Cario, Egypt

Dator, James Allen
Ph D. 1959 Government

BA, Stetson University; MA, University of Pennsylvania

Associate Professor, Political Science, Virginia Polytechnic Institute, 1966—

Blacksburg, Virginia 24060

Davis, Thomas Jefferson
Ph D. 1955 Economics

BA, University of Mississippi

American Economic Association

Professor, Economics, University of Tampa, 1966—

2401 Bayshore Blvd., Apt. 1212, Tampa, Florida 33609

Decker, Camille E.
Ph D. 1963 Public Administration
AB, Colorado State College of Education; MA, American University
Employee Development Officer, Office of Civilian Manpower Management, U.S. Navy Department
3130 Wisconsin Avenue, N.W., Washington, D.C.

Decker, Louis Richard
Ph D. 1963 Psychology
BS, MA, American University
American Psychological Association, Acoustical Society
President, Louis R. Decker Associates, Inc., Silver Spring, Maryland
8810 Sundale Drive, Silver Spring, Maryland

Decker, Ruth Elizabeth
Ph D. 1931 Philosophy
AB, George Washington University, MA, American University
Retired, Director of Religious Education, First Methodist Church, Westfield, Mass.
7 Noble Avenue, Westfield, Massachusetts 01085

Defandorf, James Holmes
Ph D. 1934 Chemistry
AB, AM, Wesleyan University (Conn.)
Sigma Xi
Society of Pharmocology and Experimental Therapeutics, Society for Experimental Biology and Medicine, Armed Forces Chemical Association
130 Hesketh Street, Chevy Chase, Maryland 20015

Denit, Louis Malvern (Deceased)
DCL 1924 Law
LL B, LL M, George Washington University; MPS, American University
Chi Psi Omega
Attorney, Chief Partner, Brandenburg and Brandenburg

de Pena, Hugo V.
DCL 1924 Law
University of Montevideo (Uruguay), LL M, American University
Ambassador of Uruguay to Chile, 1949—; retired
c/o Ministerio de Relaciones Exteriores, Montevideo, Uruguay

Deutrich, Bernice Marie
Ph D. 1962 Public Administration
BA, George Washington University; MA, American University
Business and Professional Womens Club
Budget Analyst, Federal Aviation Administration
11200 Lockwood Drive, Silver Spring, Maryland 20901

Deutrich, Mabel E.
Ph D. 1960 Public Administration
BS, State Teachers College of Wisconsin; MA, American University
Phi Delta Gamma
American Historical Association, Society of American Archivists, American Military Institute,
Director, Old Military Records Division, Office of National Archives, 1962—
11200 Lockwood Drive, Silver Spring, Maryland 20901

DiBacco, Thomas Victor
Ph D. 1965 History
BA, Rollins College; MA, American University
Phi Alpha Theta, Phi Kappa Phi, Pi Gamma Mu, Omicron Delta Kappa, Theta Alpha Phi
American Historical Association, Organization of American Historians, American Association of University Professors
Assistant Professor, History, American University, 1965—
1952 Kennedy Drive, Apt. T-2, McLean, Virginia 22101

Dibble, Ernest F.
Ph D. 1959 History
BA, American University
American Historical Association, American Association of University Professors, Organization of American Historians, American Studies Association
Professor and Chairman, History, University of West Florida
Pensacola, Florida 32501

Didsbury, Jr., Howard Francis
Ph D. 1960 History
BA, Yale; MA, Harvard
Professor, History, Newark State College (N.J.)
2799 28th Street, N.W., Washington, D.C. 20008

Dietz, Anthony George
Ph D. 1964 History
AB, Bucknell University; MA, American University
Trademark Examiner, U.S. Patent Office, 1964—
422 Mississippi Avenue, Silver Spring, Maryland 10910

Donahue, James Lane
DCL 1922 Law
LL B, LL M, Georgetown University
Lawyer
10930 Ashton, Los Angeles, California 90024*

Dorsey, Emmett E.
Ph D. 1953 Political Science

BA, Oberlin College; MA, Columbia University

Professor, Government, Howard University

1320 Upshur Street, N.W., Washington, D.C. 20011

Drake, Miles Ellis
Ph D. 1932 History

AB, Alfred University; AM, Syracuse University

LL D, Hartwick College (1955), LL D, Alfred University (1965), LHD, American University (1965), Pi Gamma Mu, Pi Delta Epsilon, Blue Key

American Historical Association

President Emeritus, Alfred University, 1926—

3427 East Lake Road, Skaneateles, New York 13152

Dreis, Thelma A.
Ph D. 1950 Public Administration

BS, MA, University of Minnesota

Sigma Xi

American Psychological Association, Society of Applied Anthropology, American Association for the Advancement of Science, Adult Education Association

Evaluation Specialist, International Agricultural Development Service, U.S. Department of Agriculture, 1963—

1910 Kalorama Road, N.W., Washington, D.C. 20009

Ducoff, Louis Joseph
Ph D. 1949 Economics

BS, Rutgers

Superior Service Award, Department of Agriculture, 1953

American Farm Economic Association, Population Association of America

Chief, Office of Social Affairs, United Nations Economic Commission for Latin America (Mexico)

7667 Maple Avenue, Takoma Park, Maryland

Dudley, Harold Merriman
Ph D. 1928 History

AB, Simpson College; BD, Garrett Biblical Institute; MA, Northwestern University

Public Relations, The Washington Liaison Service*

4302 East-West Highway, Bethesda, Maryland

Dulin, William Carter
Ph D. 1965 Business Administration

AB, Western Reserve University; MBA, Harvard

Phi Kappa Phi, American University Alumni Recognition Award (1967)

Institute of Internal Auditors, Insurance Internal Audit Group, Small Business Guidance and Development Center (Advisor), Interracial Committee for Business Opportunity of Greater Washington, D.C. (Consultant)

Associate Professor, Business Administration, American University, 1968—

5612 Grove Street, Chevy Chase, Maryland 20015

Dunn, Theodore Franklin
Ph D. 1958 Psychology

AB, AM, George Washington University

Vice President and Director of Communication, Ted Bates & Company Inc., 1963—*

179 Mayflower Avenue, Welliston Park, New York 11596

Dvoulety, Otto
DCL 1927 Law

LL B, LL M, George Washington University

Eastin, Jr., Roy Brandon
Ph D. 1953 Public Administration

AB, AM, George Washington University

Citation, Rockefeller Public Service Awards Committee; Distinguished Service, Gold Medal, U.S. Government Printing Office

American Society for Public Administration

Professor, Business Administration, George Washington University

4010 25th Place North, Arlington, Virginia 22207

Eberle, John Paul
Ph D. 1963 Public Administration

BS, MA, American University

Director of Administration, Equal Employment Opportunity Commission, 1964—

7901 Gateway Blvd., S.E., Washington, D.C. 20028

Eckhart, Ruth Alma (Deceased)
Ph D. 1933 Education

BA, Oberlin College; MA, Boston University

Editor, National Rehabilitation Association Magazine, National Education Association, 1952-57

Egan, Leona Ann Rust
Ed D. 1964 Education

BS, Johns Hopkins; M Ed., University of Maryland

Pi Lambda Theta

American Psychological Association

Research Psychologist, Navy Department, U.S. Government, 1960—

2808 N. Jefferson Street, Arlington, Virginia 22207

Eilers, R. M.
Ph D. 1956 International Relations and Organization
BS, American University
U.S. Government
2910 Courtland Place, N.W., Washington, D.C.

Ekpo, Smart Akpan
Ph D. 1963 Public Administration
AB, Howard University;
MA, American University
Assistant Professor, Political Science, Towson State College (Maryland)
Permanent: Okoro Atai, UYO, Nigeria, West Africa

El-Adly, Ibrahim Khalil
Ph D. 1952 Economics
Licentiate of Law, Syrian University (Damascus)
General Manager, Arab World Bank of Damacus*
Port-Said Street, P.O. Box 2655, Damacus, Syria*

El-Bakri, Adnan H.
Ph D. 1963 International Relations and Organization
License en Droit, Iraqi Law College (Iraq); AM, Indiana University
Teaching, University of Baghdad*
American School Street, Baghdad, Iraq*

El-Erris, Tarik Sultan
Ph D. 1965 International Relations
Licence, Law College (Baghdad); MA, American University
Press Attache, Embassy of Iraq*
2525 N. 10th Street, Arlington, Virginia*

Elia, Souheil E.
Ph D. 1963 Business Administration
BBA, American University of Beirut (Lebanon); MBA, American University
American Management Association, American Marketing Association, International Advertising Association, Society for Advancement of Management Education
Regional Director (Marketing and Management Consulting), Research and Management Centre (Lebanon), 1965—
Box 5612, Beirut, Lebanon

El-Khalil, Ali Yusuf
Ph D. 1962 International Relations and Organization
BA, MA, American University of Beirut (Lebanon)
Tyre, Lebanon*

El-Mutwalli, Tariq Nuri
Ph D. 1958 Economics
Licence in Law, Law College(Iraq)
Consul General of the Republic of Iraq
Taksim, Ayazpasa, Istanbul, Turkey

El-Saghieh, Khaled Ibrahim
Ph D. 1955 International Relations and Organization
Licentiate in Law, Syrian University

Enarson, Harold L.
Ph D. 1952 Political Science
BA, University of New Mexico; MA, Stanford University
American Political Science Association, National Education Association, Industrial Relations Research Association, American Society for Public Administration, Newcomen Society
President, Cleveland State University, 1966—
14706 Larchmere Boulevard, Shaker Heights, Ohio 44120

Enterline, Philip Ernest
Ph D. 1960 Sociology
BBA, Westminster College (Pa.); MA, American University
American Statistical Association, American Sociological Association, Population Association, Public Health Association (Fellow)
Professor, Biostatistics, Graduate School of Public Health, University of Pittsburgh, 1967—
5211 Pembroke Place, Pittsburgh, Pennsylvania 15232

Epstein, Carl Plakcy
Ph D. 1964 International Relations and Organization
BA, Tulane University; MA, Johns Hopkins University
Pi Sigma Alpha
American Political Science Association, Modern Language Association
Education Specialist, U.S. Office of Education, Bureau of Research, 1965—
River Park, 1310 Delaware Avenue, S.W., Washington, D.C. 20024

Farzanegan, Bahram
Ph D. 1966 International Relations
AB, Lafayette College; MA, University of Pennsylvania
Assistant Professor, Government, Ashville-Biltmore College
Gracelyn Gardens, Clairmont Avenue, Asheville, North Carolina 28804

Fassberg, Harold Edward
Ph D. 1965 Economics

AB, Ohio State University; MA, University of Pittsburgh

Senior Operations Research Analyst, Research Analysis Corporation, McLean, Virginia

7224 Millwood Court, Bethesda, Maryland 20034

Fawwaz, Adnan I.
Ph D. 1966 International Relations

BA, MA, American University of Beirut (Lebanon)

4119 W Street, N.W., Washington, D.C.*

Fedder, Edwin H.
Ph D. 1958 International Relations and Organization

BA, University of Maryland; MA, American University; CA, Hague Academy of International Law

Mershon Post-doctoral Fellow, Ohio State University, Danforth Faculty Grant

American Political Science Association, Southern Political Science Association, Midwest Conference of Political Scientists, International Studies Association (President of ISA Southern Division & member of Executive Council, 1965-66), American Association of University Professors

Associate Professor, Political Science, and Director, Center for International Studies, University of Missouri at St. Louis, 1967—

8001 Natural Bridge Road, St. Louis, Missouri 63121

Feustel, Irvin Carl
Ph D. 1934 Chemistry

BS, Washington State University; MS, George Washington University

Superior service award, U.S. Department of Agriculture

American Chemical Society, American Association for the Advancement of Science, Institute of Food Technologists

Agricultural Extension Specialist, U.S. Department of Agriculture, 1955-65, Retired; Head, Science Department, The Anna Head School, 1965—

1126 Park Hills Road, Berkeley, California 94708

Fields, David S.
Ph D. 1963 Business Administration

BS, MBA, City College of New York

American Association for the Advancement of Science, Operations Research Society of America, The Institute of Management Sciences

Economic Analyst, General Electric Company, 1959—

1404 Greenworth Place, Santa Barbara, California 93103

Fields, Victor
Ph D. 1964 Psychology

BS, Brooklyn College; MA, Columbia University

American Psychological Association, District of Columbia Psychological Association, Maryland Psychological Association, New York Academy of Science, American Association for the Advancement of Science, American Educational Research Association, National Council on Measurements in Education

Acting Head, Personnel and Training Research Branch, Office of Naval Research

13905 North Gate Drive, Silver Spring, Maryland 20906

Finler, Bennett
Ph D. 1957 Economics

BA, City College of New York

Systems Accountant, Navy Department

7120 Wilson Lane, Bethesda, Maryland 20034

Finley, James Joseph
Ph D. 1962 Public Administration

BA, MA, American University

Chief, Management Analysis Branch, U.S. Environmental Science Services Administration

4706 Garrett Avenue, Beltsville, Maryland 20705

Finnegan, Harold Ellsworth
Ph D. 1956 Public Administration

AB, University of Nebraska

Special Assistant to the President, National Federation of Federal Employees, 1966—

4826 Spruce Avenue, Fairfax, Virginia 22030

Fischer, Monroe Carl
Ph D. 1965 Economics

AB, MA, Duke University

Associate Professor, Economics, Nevada Southern University, 1963—

P.O. Box 2672, Las Vegas, Nevada 89104

Fitzpatrick, Richard Stanislaus (Deceased)
Ph D. 1959 Psychology

BS, Marquette University; MA, American University

Psychologist, United States Information Agency

Flapan, Maxwell
Ph D. 1963 International Relations and Organization

BS, University of Maryland; MA, American University

Specialist, Education Programs, U.S. Department of Health, Education and Welfare

9806 Barlow Road, Fairfax, Virginia

Flotow, Ernest A.
Ph D. 1942 History

Diploma, Concordia Teachers College; AB, Valparaiso University; MA, American University

Governor's Advisory Committee on Mental Health (1964-65)

American Personnel and Guidance Association

Head Counselor, Nogales Public Schools, 1948—

Beatus Ranch Estates, P.O. Box 816, Nogales, Arizona 85621

Foght, Harold (Deceased)
Ph D. 1918 Education

AB, Iowa College; AM, Augustana College (Illinois)

President, Northern Normal and Industrial School, South Dakota, 1919-27; President, Wichita Municipal University, 1927-33; Superintendent and special disbursing agent for the Cherokee Indians, U.S. Office of Indian Affairs, 1933-36

Fonbuena, Dedimo Maglaya
Ph D. 1927 Law

BA, Macalester College; MA, American University

Fonbuena, Eugenio Maglaya
Ph D. 1925 International Relations and Organization

BA, Macalester College; MA, American University

Attorney

805 G Street, N.W., Washington, D.C.

Foote, Walter Ambrose (Deceased)
Ph D. 1935 International Relations and Organization

AB, East Texas State College; MA, American University

Alumni Recognition Award, American University (1952), Psi Chi Omega

U.S. State Department, 1920-49; Counsellor of Embassy, Ceylon, 1948-49

Ford, Joseph Herbert (Deceased)
Ph D. 1922 International Relations and Organization

BS, AM, MD, George Washington University

Ford, Thomas Benjamin
Ph D. 1933 Education

BSD, Central Missouri State Teachers College; MA, Harvard

Modern Language Association, American Association for the Advancement of Science

Dean and Professor, Education, Lincoln Memorial University 1911-16, 1918-25; Professor, Education, Hiram College 1916-18; Centenary College 1927-28, Milligan College (Tennessee) 1928-n.d.

Forthal, Sonya (Mrs. Spiesman)
Ph D. 1939 Public Administration

BA, MA, University of Wisconsin

351 South 9th Street, East, Salt Lake City, Utah*

Foster, Margaret Dorothy
Ph D. 1936 Chemistry

BA, Illinois College; MS, George Washington University

Doctor of Science, Illinois College (1956), Alumni Award, Illinois College (1962), Distinguished Service Award and Gold Medal, Department of Interior (1966), First woman chemist to be employed by the Geological Survey (1918)

Chemist, Geological Survey, Department of Interior, 1918-65, Retired

321 17th Street, S.E., Washington, D.C. 20003

Fotis, Charles William
Ph D. 1959 Public Administration

BA, M Ed., Tufts

Director, Employee Training and Career Development, Department of Defense

6901 Andover Drive, Alexandria, Virginia 22307

Fotos, Evan
Ph D. 1957 International Relations and Organization

BA, Amherst College; MA, School of Advanced International Studies, Johns Hopkins University

Box 121, U.S. Army War College, Carlisle Barracks, Pennsylvania 17013

Fox, James Harold (Deceased)
Ph D. 1956 Sociology

BA, MA, American University

American Association for the Advancement of Science, American Sociological Association, Public Health Association, Society for the Study of Social Problems

Assistant Chief, Center for the Study of Narcotics and Drug Abuse, National Institute of Mental Health

Fox, Leon A. (Deceased)
Ph D. 1932 Biology

BA, MD, University of Cincinnati; MS, American University; Dr. PH, Johns Hopkins University

American College of Surgeons (Fellow), American College of Physicians (Fellow), American Public Health Association

Brigadier General, Army Medical Corps

Frankfurt, Leslie P.
Ph D. 1965 Psychology

BBA, MBA, City College of New York

Chairman, Psychology, Montgomery Junior College

1900 Lyttonsville Road, Silver Spring, Maryland 20910

Fredland, John Roger

Ph D. 1957 Economics

AB, Bates College

Phi Beta Kappa

American Association of University Professors, American Economic Association

Professor and Chairman, Economics, U.S. Naval Academy, 1941—

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Fried, Charles

Ph D. 1963 Psychology

BS, College of the City of New York; MA, New School for Social Research

Member of Technical Staff, TRW Systems Inc.

5201 Myer Court, Rockville, Maryland

Friend, Irwin

Ph D. 1953 Economics

BS, City College of New York

Richard K. Mellon Professor of Finance, Wharton School of Finance and Commerce, University of Pennsylvania

706 Argyle Avenue, Wynnewood, Pennsylvania

Gaber, Mohamed Hosney Mohamed

Ph D. 1962 International Relations and Organization

Certificate of License of Teaching, Al-Azhar University (Egypt); MA, University of Maryland

· 2551 Massachusetts Avenue, Washington, D.C.*

Gaddis, Porter L. (Deceased)

Ph D. 1940 Economics

BS, MA, University of Nebraska

Gamma Sigma Delta, Alpha Zeta

American Farm Economic Association

Farm Credit Administration, 1933-44; Assistant manager, farm loan service, Equitable Life Assurance Society of the United States, n.d.

Gareau, Frederick Henry

Ph D. 1957 International Relations and Organization

BA, University of Toledo; Licence es Science, Geneva

American Political Science Association, African Studies Association

Associate Professor, Government, Florida State University

2231 Armistead Road, Tallahassee, Florida 32303

Garfinkle, Stuart Harold

Ph D. 1958 Sociology

BA, Pennsylvania State University; MA, University of Pennsylvania

Labor Economist, U.S. Department of Labor

10220 Parkwood Drive, Kensington, Maryland

Gasser, Robert Louis

Ph D. 1955 Sociology

BA, University of Denver; MA, George Washington University

American Sociological Association, International Sociological Association, American Academy of Political and Social Science, Swiss-American Historical Society

Professor, Sociology and Director, Foreign Study Programs, Temple Buell College (Colorado), 1960—

Hotel La Riviera, 1245 Collonge-Bellerive, Canton Geneve, Switzerland

Gathof, Jr., Francis William

Ph D. 1963 Economics

BS, MA, American University

Associate Professor, Economics, Beloit College

816 Park Avenue, Beloit, Wisconsin

Gatke, Robert Moulton

Ph D. 1925 History

AB, MA, Willamette University; BD, Kimball School of Theology

Professor Emeritus, Willamette University, 1920—

280 Richmond Avenue, S.E., Salem, Oregon 97301

Geller, Irving

Ph D. 1957 Psychology

BA, MA, George Washington University

Sigma Xi

American Psychological Association, Eastern Psychological Association, Society of Pharmacology and Experimental Therapeutics, Behavioral Pharmacology Society

Chairman, Department of Pharmacology and Toxicology, Southwest Foundation For Research and Education, 1966—

122 Tall Oak, San Antonio, Texas 78232

Gendebien, Albert William

Ph D. 1951 History

BS, MA, Lafayette College

International Student Exchange Fellow, University of Rome (1936-37), Phi Alpha Theta

American Historical Association, American Association of University Professors

Head (1967) and Professor, History, Lafayette College, 1948—

511 Parsons Street, Easton, Pennsylvania 18042

Georgiades, Zenon Efthymiou

Ed D. 1966 Education

AB, AM, George Washington University

Ministry of Education

P.O. Box 1216, Nicosia, Cyprus

Ghalayini, Khalil A.
Ph D. 1956 Public Administration

BA, Utah State Agricultural College

Ghatate, Narayan M.
Ph D. 1966 International Relations

BA, Nagpur University (India); MA, American University

Gilgash, Curtis Arnold
Ph D. 1956 Psychology

AB, Washington College, MA, American University

Psi Chi

American Association of University Professors, American Psychological Association, American Personnel and Guidance Association, Florida Psychological Association

Professor and Department Chairman, University of Tampa, 1962—

Permanent: 211 Burke, Towson, Maryland 21204

Gitter, A. George
Ph D. 1965 Sociology

BA, University of Virginia; MA, American University

Assistant Professor, Communication Research, Boston University

Hunting Lane, Sherborn, Massachusetts 01770

Goldberg, Benjamin
Ph D. 1957 Economics

BS, St. John's University; MA, New York University

Manager-Programs and Pricing, Mobil Oil Corporation

149 West Chester Street, Long Beach, Long Island, New York 11561

Goldberg, Karl
Ph D. 1957 Mathematics

BS, Massachusetts Institute of Technology; MA, Columbia University

Mathematician, National Bureau of Standards, 1951—

3801 Connecticut Avenue, N.W., Washington, D.C. 20008

Goldstein, Sidney
Ph D. 1957 Economics

BA, Brooklyn College; LL B, Georgetown University; MA, American University

Performance awards, Departments of Labor and Commerce, Lambda Alpha

American Bar Association, Federal Bar Association, American Economic Association, Regional Science Association, Chairman, Committee on Economic Impact of Highways, National Academy of Sciences, Highway Research Board

Associate Director, Office of Economic Research, Economic Development Administration, U.S. Department of Commerce, 1966—

311 Irwin Street, Silver Spring, Maryland 20901

Gordon, Willis Owen
Ph D. 1937 Chemistry

BS, University of Illinois; MS, University of Alabama

Chemical Engineer, Division of Agricultural Chemical Research, Bureau of Agricultural and Industrial Chemistry, U.S. Department of Agriculture, 1938—*

Gould, Walter Hollis (Deceased)
Ph D. 1933 Philosophy

BS, University of Vermont

National Education Association, American Philosophical Association

Professor, Philosophy and Education, Norwich University (Vermont) 1924-33; Field work in education 1933-n.d.

Göze, Haluk Necdet
Ph D. 1964 International Relations and Organization

Licence, University of Istanbul (Turkey); MA, American University

2138 California Street, N.W., Washington, D.C.

Gray, Harry Lee
Ph D. 1964 Business Administration

BS, MBA, American University

Phi Kappa Phi

American Economic Association, Financial Analysts Federation, Washington Society of Investment Analysts

Assistant Chief, Personnel and Administrative Services Division, Farm Credit Administration, 1966—

2901 18th Street, N.W., Washington, D.C. 20009

Gray, Norman Hamblin
Ph D. 1961 Education

BA, MA, George Washington University

Head, Human Factors Support Unit, U.S. Naval Personnel Research Activity

2209 Dunhaven Street, San Diego, California

Green, Murray
Ph D. 1960 History

BS, MS, City College of New York

Deputy Chief, Research and Analysis Division, Office Secretary of the Air Force

1405 Red Oak Drive, Silver Spring, Maryland

Greenbank, George Richard
Ph D. 1930 Chemistry

BA, Ohio State University

American Chemical Society's Borden Award; Superior Service Award, U.S. Department of Agriculture

American Chemical Society, American Dairy Science Association, Washington Academy of Sciences

Research Chemist, U.S. Department of Agriculture, 1922-62, Retired

632 24th Street, South, Arlington, Virginia 22202

Greene, Morris Alexander
Ph D. 1960 Public Administration

BS, George Williams College; AM, George Washington University

Kappa Delta Pi, Distinguished Alumnus, George Williams College

Assistant Director, FAO Liaison Office with the United Nations

440 E. 62nd Street, Apartment 7D, New York, New York 10021

Groseclose, Elgin
Ph D. 1928 History

AB, University of Oklahoma; MA, American University

National Association of Business Economists, Institute for Monetary Research (Founder)

Head, Groseclose, Williams and Associates (Financial and Investment Consultants), 1944—

4813 Woodway Lane, N.W., Washington, D.C. 20016

Gross, Edwin J.
Ph D. 1961 Sociology

AB, MA, New York University

Alpha Kappa Delta

American Sociological Association, American Marketing Association

Associate Professor, Marketing, Roosevelt University

234 Maple Hill Road, Glencoe, Illinois 60022*

Grotefend, Mary Emery
Ph D. 1966 Sociology

BA, Baker; MS, Catholic University

Sigma Theta Tau

American Sociological Association, American Association of University Professors, Maryland Public Health Association

Associate Professor, Public Health Nursing, University of Maryland

1101 Granville Road, Baltimore, Maryland 21207

Grover, Wayne Clayton
Ph D. 1946 Public Administration

AB, University of Utah; MA, American University

Career Service Award, National Civil Service League; Alumni Achievement Award, American University (1962); Honorary LL D degrees from Brown University (1956), Bucknell University (1960), Belmont Abbey College (1964)

Society of American Archivists (Vice President and President), International Council on Archives (Vice President), American Political Science Association, American Society for Public Administration, American Historical Association, Massachusetts Historical Society

Archivist of the United States, General Services Administration, U.S. Government, 1948-65; Self-employed consultant, 1966—

2303 Linden Lane, Silver Spring, Maryland 20910

Guadagnoli, Louis George
Ph D. 1966 Economics

BS, College of the Holy Cross; MS, University of Wisconsin

Financial Economist, Export-Import Bank of the United States

950 25th Street, N.W., Washington, D.C. 20037

Hadlick, Paul E.
DCL 1923 Law

LL B, MPL, LL M, SJD, Georgetown School of Law, BS in FS, Georgetown University

American Bar Association, American Patent Law Association

Law practice in Washington, D.C., 1949-65.
Counsel to various Senate and House Committees; Retired

2531 Norfolk Road, Orlando, Florida 32803

Hall, Jr., Chester Gordon
Ph D. 1965 Public Administration

AB, Columbia College; MA, American University

Pi Sigma Alpha

American Society for Public Administration, National Society for Programmed Instruction, U.S. Naval Institute

Director of Education, National Restaurant Association (D.C. & Ill.), 1966—

2005 Columbia Pike, Arlington, Virginia

Hallam, Kenneth Jerome
Ph D. 1966 Psychology

BS, MA, Bradley University

American Psychological Association, American Educational Research Association

Director of Institutional Research, State University College, 1968—

New Paltz, New York

Hammack, William Thomas (Deceased)
DCL 1922 Law

LL B, LL M, American University

Assistant Director, Bureau of Prisons, U.S. Department of Justice

Handorf, William George
Ed D. 1962 Education

BA, MA, Northwestern University

Phi Delta Kappa

American Historical Association, American Psychological Association, Kentucky Psychological Association

Chief, Personnel Division, Darnall Army Hospital, Ft. Hood, Texas, 1966—

Darnall Army Hospital, Fort Hood, Texas 76546

Hanson, Frank Blair (Deceased)
Ph D. 1919 Biology

AB, George Washington University; AM, University of Illinois

Phi Beta Kappa, Sigma Xi

American Academy for the Advancement of Science (Fellow), American Society of Zoologists, American Association of Anatonomists, Genetics Society of America, American Society of Naturalists

Rockefeller Foundation, Fellowship administrator for natural sciences (Europe), 1930-32; Assistant Director (New York), 1933-35; Associate Director, 1935

Hanson, Royce
Ph D. 1963 Government

BA, Central State College (Oklahoma); MA, American University

Professor, School of Government and Public Administration, American University, 1957—; President, Center for Metropolitan Studies, Washington, D.C., 1967—

7804 Cindy Lane, Bethesda, Maryland 20034

Harper, Robert William
Ph D. 1957 International Relations and Organization

BS, MA, New York University

Harper, Wilson Forman
DCL 1922 Law

LL B, LL M, Georgetown University

Harris, Martha Jane Lintelman
Ph D. 1965 Public Administration

BS, University of Pittsburgh; MA, George Washington University

Meritorious Service Award Department of Commerce, Pi Sigma Alpha, Phi Delta Gamma

American Society for Public Administration, Society for Personnel Administration, Industrial Relations Research Association, American Society for Training and Development

Personnel Management Specialist, U.S. Veterans Administration Center, Washington, D.C., 1965—

3341 Dent Place, N.W., Washington, D.C. 20007

Hart, Eugene D.
Ph D. 1958 Public Administration

BS, Iowa State University; AB, ABLS, University of Michigan; MA, American University

American University Honor Society

American Library Association, Special Libraries Association, California Library Association

Associate Professor, School of Library Science, University of Southern California, 1959—

8120 Maitland Street, Inglewood, California 90301

Hartman, Grover Lowell
Ph D. 1946 History

AB, DePauw University; MA, American University

Doctor of Humane Letters (DePauw), Society of Theta Phi

Association of Church Social Workers(President), Indiana Council on Family Relations(President)

Executive Secretary, Indiana Council of Churches, 1959—

54 East Beechwood Lane, Indianapolis, Indiana 46227

Hassing, Per Schioldborg
Ph D. 1960 History

Diploma, Methodist School of Theology, Goteborg (Sweden); MA, Hartford Seminary Foundation

Society for African Church History, Association of Professors of Missions, American Association of University Professors

Associate Professor of Missions, Boston University School of Theology

106 Nevada Street, Newtonville, Massachusetts 02160

Hasty, Gerald Richard
Ph D. 1963 Public Administration

BS, MBA, Bradley University; MA, American University

Pi Sigma Alpha

American Association of University Professors

Lt. Col., U.S. Army, Office of Deputy Chief of Staff, Logistics, 1967—

8316 Wagon Wheel Road, Alexandria, Virginia 22309

Hattery, Lowell H.
Ph D. 1951 Public Administration

AB, Ohio University

Society for Advancement of Management (Fellow), American Association for the Advancement of Science (Fellow), International University Contact for Management Education, The Institute of Management Sciences, American Documentation Institute, American Society for Public Administration, Association for Computing Machinery

Professor, School of Government and Public Administration, American University, 1948—; Consultant in management and data processing systems to industry and government, 1946—

Rt. #4, Mt. Airy, Maryland 21771

Hawver, Carl Fullerton
Ph D. 1963 Sociology

BS, MA, Bowling Green State University

District of Columbia Sociological Society, American Sociological Association, Public Relations Society of America, Eastern Sociological Society, American Society of Association Executives

Executive Vice President, National Consumer Finance Association, 1963—

8100 Kerry Lane, Chevy Chase, Maryland 20015

Hazard, Henry Bernard (Deceased)
DCL 1925 Law

LL B, University of Oregon, LL M, American University

Pi Gamma Mu

Admitted to bar: Oregon, U.S. Supreme Court; American Society International Law (Executive Council), National Council on Naturalization and Citizenship (Executive Board), American Association for Adult Education

Assistant Commissioner for Research and Education, Immigration and Naturalization Service, United States Departments of Labor and Justice, 1913-49

Heath, Kathryn Gladys
Ph D. 1951 Public Administration

BA, American University; MA, Syracuse University

Pi Gamma Mu, Pi Lambda Theta, Delta Sigma Rho

American Educational Research Association, American Society for Public Administration, Cooperative Forum, Comparative Education Society, D.C. Council of Administrative Women in Education, National Education Association, Business and Professional Women's Foundation

Assistant for Special Studies, Office of Education, Department of Health, Education and Welfare, 1959—

Apt. 905, 730 24th Street, N.W., Washington, D.C. 20037

Heier, William Dewey
Ph D. 1965 Business Administration

BS, University of Maryland; MA, George Washington University

American Management Association, Southern Management Association, National Council for Small Business Management Development

Associate Professor, Arizona State University, 1966—

3031 South Rural Road, Apt. 28, Tempe, Arizona 85281

Held, Walter George
Ph D. 1951 Public Administration

BA, Bucknell University; MA, American University

Pi Sigma Alpha, Meritorious Service Award (1956)

American Society for Public Administration, American Political Science Association, American Ordnance Association

Member, Senior Staff, and Director, Business Programs, Brookings Institution, 1960—

2042 Rockingham Street, McLean, Virginia 22101

Hellner, Maurice Henry
Ph D. 1953 Economics

BS, University of Southern California; MA, American University

Senior Technical Advisor, Defense Intelligence Agency, 1962—

6411 Blue Bill Lane, Alexandria, Virginia 22307

Henry, Paul A.
Ed D. 1964 Education

BS, M Ed., University of Pittsburgh

Phi Delta Kappa

Montgomery County Education Association, Maryland State Education Association, National Education Association, American Association of School Administrators, Association of School Business Officials, Montgomery County Administrators Association

Assistant Superintendent, Business and Finance, Montgomery County Public Schools

210 Upton Street, Rockville, Maryland 20850

Hewett, Robert Foster
Ph D. 1965 History

BS, United States Military Academy; MS, Stanford University

Asian Society, American Historical Association, Association for Asian Studies

Director, Command and Staff Department, US Army Security Agency School, Ft. Devens, Mass., Retired; Associate Professor, History, Franklin Pierce College, 1966—

Whitman Road, Groton, Massachusetts 01450

Hidnert, Peter (Deceased)
Ph D. 1931 Physics

AB, George Washington University

Meritorious Service Award, Department of Commerce (1952), New York Academy of Science

Physicist, National Bureau of Standards, 1916-57

Hieronymus, George H.
Ph D. 1956 Public Administration

AB, Berea College; MA, University of Kentucky

Phi Kappa Phi; Public Service Award, National Civil Service League; Merit Service Award, U.S. Department of the Army

Society of American Foresters, Society for Personnel Administration, American Society for Public Administration, Society for the Advancement of Management

Development and Planning Officer, Northern Virginia Community College, 1965—

3122 Worthington Circle, Falls Church, Virginia 22044

Hill, Donald Walter
Ph D. 1964 Business Administration

BS, Bucknell University; MS, Cornell University

Massey Fellow (American University, 1959-60), Cokesbury Award Fellow (1960-61)

American Economic Association, American Marketing Association

Professor of Economics and Dean, Rollins College

1085 Park Avenue North, Winter Park, Florida

Hillam, Ray Cole
Ph D. 1964 International Relations and Organization

BA, University of Utah; MA, George Washington University

Associate Professor and Chairman, Political Science, Brigham Young University

781 North 1050 East, Provo, Utah

Himes, Robert Stanley
Ph D. 1962 Economics

BS, MBA, American University

Assistant Professor, Business Administration, University of Maryland

10603 Amherst Avenue, Silver Spring, Maryland 20902

Ho, Tin Gwang
Ph D. 1935 Economics

BA, West China Union University; MA, Wesleyan; MS, Syracuse University

Hoben, Katherine Evelyn Hunter
Ph D. 1961 International Relations

Certificate, The Sorbonne; Ph B., University of Chicago; MA, American University

Survey Director, contract, USAID/Colombia, 1965—

c/o American Embassy, Bogota, Colombia, South America or Department of State, Washington, D.C. 20521

Hochman, Irvin
Ph D. 1962 Psychology

AB, Johns Hopkins University; MA, Columbia University; MS, University of Pittsburgh

American Psychological Association, Eastern Psychological Association, New Jersey Psychological Association, American Educational Research Association

Research Coordinator and Associate Professor, Psychology, Rockland Community College, State University of New York at Suffern, 1964—

120 Summit Avenue, Dumont, New Jersey 07628

Hodge, Clarence Lewis
Ph D. 1938 Political Science

B Ed., Southern Illinois State Teachers College; MA, University of Illinois

Hoffman, H. Theodore
Ph D. 1947 Economics

B Sci., University of Dayton; MA, American University

Beta Gamma Sigma

American Economic Association, Catholic Economic Association, International Association of Catholic Economists, Agronomists and Engineers

Professor, Economics, University of Detroit, 1950—

18292 Hartwell Street, Detroit, Michigan 48235

Hoffman, James Irvin (Deceased)
Ph D. 1930 Chemistry

AB, Franklin and Marshall College; MS, George Washington University

Sigma Xi, Alpha Chi Sigma, Phi Beta Kappa, Hillebrand prize in Chemistry (1947), Fisher Award, American Chemical Society (1959), Meritorious Service Medals (Silver 1950, Gold 1956), American University Alumni Recognition Award (1958)

American Society for Metals, Washington Academy of Sciences, American Chemical Society

Chief, Metallurgy Division, National Bureau of Standards, 1919-62

Hogenson, Palmer Tobias (Deceased)
Ph D. 1940 Economics

BA, St. Olaf College; MBA, Harvard University

President, Webber College (Florida), 1947-53; Private research, 1953-55

Holliday, Carl (Deceased)
Ph D. 1922 History

BS, AM, University of Tennessee; DCL, Chicago College of Law

Litt. D., Campbell College (1915)

Dean, College of Arts and Sciences, University of Toledo, 1918-29; Professor, English, California State College, San Jose, 1929-36

Holly, David C.
Ph D. 1964 International Relations

BS, Johns Hopkins; MA, University of Maryland

Phi Kappa Phi, Pi Gamma Mu, Pi Sigma Alpha, Phi Delta Kappa

American Political Science Association, American Society of International Law, Naval Institute

Associate Professor, International Relations, Hampton-Sydney College (Va.), 1967—

Holmgren, Samuel Theodore
DCL 1923 Law

LL B, LL M, AB, George Washington University

Assistant United States Attorney, District of New Hampshire

General practice of law in Concord, New Hampshire

126 North State Street, Concord, New Hampshire 03301

Houk, John Talbott
Ph D. 1962 Economics

BA, Brown University; Candidate, Swedish School of Economics (Finland)

Associate Director, Meals for Millions Foundation (Santa Monica, California)

6218 Beachway Drive, Falls Church, Virginia

Houk, Marian Mixon
Ed D. 1963 Education

BA, Brown University; M Ed., Goucher

Graduate School Instructor, University of Virginia, Northern Virginia Center

6218 Beachway Drive, Falls Church, Virginia

Housel, Jerry Winters
Ph D. 1941 International Relations and Organization

BA, LL B, University of Wyoming

State Board of Law Examiners (President), Park County Bar Association, American Bar Association, Wyoming State Bar, World Peace Through Law Center, American College of Probate Counsel (Fellow)

Lawyer, private practice, 1946—

1500 11th Street, Cody, Wyoming 82414

Howard, Charles Spaulding
Ph D. 1928 Chemistry

BS, Worcester Polytechnic Institute; MS, American University

Citation for Distinguished Service, U.S. Department of the Interior

American Association for the Advancement of Science, American Society of Civil Engineers, American Waterworks Association, American Geophysical Union, American Chemical Society

Chemist, U.S. Geological Survey, 1920-57, Retired

437 Waverley Street, Menlo Park, California 94025

Howell, William Rabon (Deceased)
Ph D. 1929 Economics

AB, Milligan College; MA, BD, Yale University

LL D, Washington College (1950); Pi Gamma Mu

American Association of University Professors, American Association of Collegiate Registrars, American Sociological Association, American Geographical Society (Fellow)

Professor Emeritus, Economics and Sociology, and Registrar, Washington College, Chestertown, Maryland, 1921-64

Hoyt, Jr., John Stanley
Ph D. 1959 Economics

B ME, Syracuse University; MA, George Washington University

Tau Beta Pi, Pi Mu Epsilon, Pi Tau Sigma, Omicron Delta Gamma

Director, Economics and Management Sciences Division, North Star Research and Development Institute*

3100 38th Avenue, South, Minneapolis, Minnesota*

Hoyt, William George
Ph D. 1965 Psychology

AB, AM, George Washington University

Human Factors Scientist, System Development Corporation, Santa Monica, California

20302 Mobile Street, Canoga Park, California 91306

Hubbard, Donald
Ph D. 1932 Chemistry

BS, MS, University of Florida

Silver Medal, U.S. Department of Commerce (1954)

American Chemical Society, Optical Society of America, American Association for the Advancement of Science

Retired, Research Chemist, National Bureau of Standards, 1925-64

4807 Chevy Chase Drive, Chevy Chase, Maryland 20015

Hubbard, Genevieve Fana Gregg
Ph D. 1936 History

AB, Nebraska State Teacher's College; MA, George Washington University

American Political Science Association, Music Teachers National Association, National Federation of Music Clubs, National Education Association, National Guild of Piano Teachers

Private piano teacher, 1951—

3308 Runnymede Place, N.W., Washington, D.C., 20015

Huddle, Franklin Pierce
Ph D. 1964 Government

BFA, University of Arizona; AM, Brown University; MA, American University

American Academy of Political and Social Science, American Society for Metals, Society of American Military Engineers

Specialist, Science and Technology, Legislative Reference Service, Library of Congress, 1967—

2405 Nemeth Court, Alexandria, Virginia 22306

Hull, Doris M.
Ph D. 1966 International Relations

BS, Virginia State College; MS, Drexel Institute of Technology

Assistant Professor, Graduate School of Library Science, Drexel Institute of Technology

502 S. Melville Street, Philadelphia, Pennsylvania

Hunter, Kenneth H.
Ph D. 1935 Economics

AB, University of Idaho; MBA, University of Oregon

American Economic Association, American Statistical Association, American Finance Association

Professor, Social Sciences, and Administrative Assistant to the President, Ohio Valley College 1963—

204 55th Street, Vienna, West Virginia 26101

Hunton, Benjamin Lacy
Ph D. 1954 Public Administration

AB, MA, Howard University

Board of Directors, Health and Welfare Council, D.C.

Education Officer, Department of Health, Education, and Welfare, 1966—

7737 Ardmore-Ardwick Road, Hyattsville, Maryland 20784

Huntzberger, Isaac Witman (Deceased)
Ph D. 1923 Education

BA, MA, Lebanon Valley College

Hutcheson, Maud Macdonald
Ph D. 1951 History

BA, Toronto; MA, McGill University

Massey Fellowship, 1946-47

Retired, Embassy of Canada in Washington, D.C., 1929-59

18 Thurloe Avenue, Toronto 7, Ontario, Canada

Hutchins, John A.
Ph D. 1953 International Relations and Organization

AB, Allegheny College; MA, Fletcher School of Law and Diplomacy

Chevalier of the Order of the Southern Cross, Brazil (1958). Oficial of the Order of the Southern Cross, Brazil (1966), Order of Merit, Paraguay (1965), Fellowship, Organization of American States (1960)

Associate Professor, Portuguese and Spanish, U.S. Naval Academy

201 Wardour Drive, Annapolis, Maryland 21401

Huyck, Earl Eugene
Ph D. 1956 International Relations and Organization

BA, Hamilton College; MA, School of Advanced International Studies of Johns Hopkins

Superior Service Award, U.S. Department of Health, Education and Welfare, (1965)

Population Association of America, American Sociological Association (Fellow), District of Columbia Sociological Society

Demographer

USAID to Costa Rica, Department of State, Washington, D.C. 20521

Irelan, Lola Marie
Ph D. 1964 Sociology

AB, George Washington University; MA, American University

Chief, Old Age and Retirement History Survey, Office of Research and Statistics, Division of Economic and Social Service, Social Security Administration, Department of Health, Education and Welfare

1228 W. Taylor Street, Arlington, Virginia 22201

Iskandar, Adnan G.
Ph D. 1964 Public Administration

BA, MA, American University of Beirut

Assistant Professor, Public Administration, American University of Beirut

Beirut, Lebanon

Jain, Chaman Lal
Ph D. 1965 Economics

BA, MA, Panjab University, (India); MA, Vanderbilt University

c/o Raj. Di Halli Cloth Merchants, Bazaar Kalan, Jullunsur City, Punjab, India*

Jarvis, Clarence Sylvester
Ph D. 1927 Economics

BA, Brigham Young University; BS in CE, University of Missouri; MS, University of Michigan

Retired, Consulting Engineer, Sevier River Land and Water and Provo Reservoir, Utah

c/o Mrs. Henry Berbert, 513 Calabasas Road, Watsonville, California 95076

Jerzykowicz, George
Ph D. 1934 Chemistry

B. es. L., University of Paris (France); University of Zurich (Switzerland)

Jo, Yung-Hwan
Ph D. 1964 International Relations and Organization

BA, Lincoln Memorial University; MA, University of Tennessee

Assistant Professor, Political Science, Arizona State University, 1966—

2223 South McClintock, #31, Tempe, Arizona 85281

John, Ralph Candler
Ph D. 1950 Public Administration

BA, Berea College; STB, STM, Boston University

Phi Kappa Phi, Pi Gamma Mu, Pi Sigma Alpha, Omicron Delta Kappa, American University Alumni Recognition Award (1968)

American Philosophical Association

President, Simpson College, 1963—

300 West Girard Avenue, Indianola, Iowa 50125

Johnson, E. Luther
Ph D. 1966 International Relations

BA, MA, Clark University; MA, American University

Phi Kappa Phi, Pi Sigma Alpha

American Academy of Political and Social Science, The U.S. Naval Institute

Area Analyst, Staff, Commander-in-Chief, U.S. Naval Forces, Europe, 1966—

Current address: CINCUSNAVEUR Staff, Box 7, FPO, New York 09510

Permanent Address: 43 Charlotte Street, Worcester, Massachusetts 01610

Johnston, Denis Foster
Ph D. 1961 Sociology

AB, University of California (Berkeley); MA, University of Oregon; MA, Harvard

Population Council Fellowship (1953), American University Honor Society, Secretary of Labor's Career Service Award (1967)

American Sociological Association, D.C. Sociological Society, American Statistical Association, Washington Statistical Society, Population Association of America, Philosophy of Science Association, American Association for the Advancement of Science

Labor Economist, Bureau of Labor Statistics, U.S. Department of Labor, 1961—

1434 36th Street, N.W., Washington, D.C. 20007

Johnston, Jr., Mont Sandels
Ph D. 1965 Business Administration

BS, Oklahoma A & M College; M.Ad. E., New York University; MBA, American University

Registered Professional Engineer (Oklahoma)

Vice-President, Administrative Services, Fibers Division, Allied Chemical Corporation, 1965—

1 Times Square, New York, New York 10036

Jones, Rosalie Gardner
DCL 1922 Law

AM, Adelphi University; LL M, George Washington University

Jones, Roy Junios
Ph D. 1961 Psychology

BS, Morgan State College; MS, Howard University

Assistant Professor, Neurology and Psychiatry, School of Medicine, Howard University, 1964—

4315 22nd Street, N.E., Washington, D.C. 20018

Kaaret, Raymond Henry
Ph D. 1958 Government

AB, University of California (Berkeley); MPA, New York University

Pi Sigma Alpha

American Political Science Association, Mid-Western Political Science Association, American Association of University Professors

Associate Professor and Chairman, Political Science, Ithaca College, 1962—

1113 E. State Street, Ithaca, New York 14850

Kabbani, Rashid
Ph D. 1957 International Relations and Organization

Licentiate in Law, Syrian University

Kaganoff, Nathan M.
Ph D. 1961 History

BS, Northwestern University; MA, American University

Librarian, American Jewish Historical Society

718 W. 178 Street, New York, New York 10033

Kaiser, Chester Carl
Ph D. 1954 History

BS, MS, Kansas State Teachers College; MA, University of Southern California

Pi Gamma Mu, Kappa Delta Pi, Phi Alpha Theta, Phi Delta Kappa

American Historical Association, Oregon Historical Society, Oregon Conference of Historians, Association of State and Local History, Latin American Historical Conference

Associate Professor, History, Willamette University, 1946—

1175 Court Street, Apt. 203, Salem, Oregon 97301

Kane, John Ewing
Ph D. 1950 Economics

BS, MS, University of Arkansas

Acting Vice President for Business, University of Arkansas

1245 Columbus Boulevard, Fayetteville, Arkansas

Karch, John Joseph
Ph D. 1951 International Relations and Organization

BS, Temple University; MA, American University

Federal Executive Fellowship, (The Brookings Institution, 1964-65)

American Association for the Advancement of Slavic Studies, The American Political Science Association, Overseas Press Club

Deputy Chief, European Division, Voice of America, U.S.I.A., 1966—

2626 Pioneer Lane, Falls Church, Virginia 22043

Kassoff, Arthur I.
Ph D. 1966 Psychology

AB, George Washington University; MA, American University

Chief Psychologist, Fairfax County Guidance Center

6808 Sorrell Street, McLean, Virginia 22101

Katabi, Mohamed Adnan
Ph D. 1955 Economics

BBA, American University of Beirut (Lebanon); MA, University of Cincinnati

Director of Commercial Affairs, General Petroleum Authority, Syrian Arab Republic, 1965—

P.O. Box 1245, Damascus, Syria

Katz, S. Stanley
Ph D. 1966 Economics

BA, MA, Syracuse University

American Economic Association

Economist, International Bank for Reconstruction and Development, 1965—

6807 Buttermere Lane, Bethesda, Maryland 20034

Kaufman, Robert W.
Ph D. 1961 Public Administration

BS, University of Wisconsin; MA, American University

Associate Professor, Political Science, and Director, Michigan Center for Education in Politics, Western Michigan University, 1959—

1538 Evanston, Kalamazoo, Michigan 49001

Keene, Henry Clay (Deceased)
DCL 1921 Law

LL B, LL M, George Washington University

Keesecker, Ward W.
Ph D. 1929 Political Science

AB, B Ed., MA, George Washington University; MPS, American University; LL B, Washington College of Law

Chi Psi Omega

National Education Association, American Academy of Political and Social Science

Dean Emeritus, Salem College (West Virginia) 1957—

Berkeley Springs, West Virginia 25411

Kelser, Raymond Alexander (Deceased)
Ph D. 1923 Biology

DVM, George Washington University; AM, American University

Honorary Associate, Royal College of Veterinary Surgeons, London; Research fellow in bacteriology, Harvard University Medical School (1933-35), Phi Zeta, Sigma Xi

American Association for the Advancement of Science, American Academy for Tropical Medicine, American Public Health Association, American Veterinary Medical Association, American Association of Pathologists and Bacteriologists, National Academy of Sciences, Society of American Bacteriologists, American Society for Experimental Pathology, American Society of Tropical Medicine, Washington Academy of Sciences

Brigadier General, U.S. Army and Chief, Veterinary Corps, 1918-46, Retired; Professor, Bacteriology and Dean of Faculty, School of Veterinary Medicine, University of Pennsylvania, 1946-52

Kemp, William Beck
Ph D. 1928 Biology

BS, Maryland Agricultural College

American Association for the Advancement of Science (Fellow), American Society of Agronomy (Fellow), Experiment Station Committee on Organization and Policy, Non-Governmental Committee on FAO

Director of Agriculture Experiment Station, University of Maryland, 1943-51, Retired

"Chicawane", Lottsburg, Virginia 22511

Kendrick, James Frank
Ph D. 1935 Economics
BS, MS, Ohio State University
Retired (1966) Head of U.S.D.A. Washington Data Processing Center; Manager, Training in Computer Sciences, Graduate School, U.S.D.A.
2506 S. Lynn Street, Arlington, Virginia 22202

Kendrick, Solomon Joseph
Ed D. 1966 Education
BS, M. Ed., Alabama State College
Chief Examiner, Department of Personnel, Board of Examiners, District of Columbia Public Schools
727 Congress Street, S.E., Washington, D.C. 20032

Kenny, Norris Gage (Deceased)
Ph D. 1931 Economics
BS, AM, University of Nebraska
Deputy Director, Office of Foreign Economic Defense Affairs, Department of Defense, —1953*

Kephart, Calvin Ira
Ph D. 1933 Education
BS, University of California (Berkeley); LL B, LL M, DCL, National University Law School; BCS, Southeastern University
Tau Beta Pi, Sigma Xi, Sigma Nu Phi, Chi Psi Omega
National Genealogical Society, Anthropological Society of Washington, Huguenot Society of Pennsylvania
Hearing Examiner, Interstate Commerce Commission, (1933-40, 1943-49) Retired
Shady Side, Maryland 20867

Kerley, David Moorman
Ph D. 1954 Economics
AB, University of North Carolina; MA, Louisiana State University
Phi Beta Kappa, Phi Kappa Phi, Pi Mu Epsilon
American Economic Association, Alpha Kappa Psi
Professor, Economics, Winthrop College, 1952—
720 Eden Terrace, Rock Hill, South Carolina 29730

Kerwin, Harry Wayne
Ed D. 1964 Education
AB, San Jose State College; MA, Long Beach State College
Honorary Master of Science, Tehran Polytechnique (1962)
Phi Delta Kappa, Epsilon Pi Tau
National Education Association, American Association of School Administrators, American Vocational Association
Chief Educationist, Agency for International Development, (Turkey) 1964—
4121 Cedar Avenue, Long Beach, California

Key, Kerim K.
Ph D. 1950 History
BS, Robert College (Turkey); MA, University of California (Berkeley)
Middle East Institute
Director, ITFSS/OIRE, Department of Commerce, 1961—
2737 Devonshire Place, N.W., Washington, D.C. 20008

Key, Norman
Ed D. 1959 Education
AB, Howard College (Alabama); MA, George Washington University
National Education Association, American Association of School Administrators, American Sociological Association, American Academy of Political and Social Science, President's Commission for Traffic Safety
Executive Secretary, National Commission on Safety Education, National Education Association
Box 74, Great Falls, Virginia 22066

Khabiri, Cyrus Hossein
Ph D. 1959 International Relations and Organization
BA, George Pepperdine College; MA, American University

Khayat, Habeeb Albert
Ph D. 1962 International Relations and Organization
BS, Xavier University
Assistant Professor, Political Science, Marshall University, 1966—
306 Roseland Court, Huntington, West Virginia 25705

Kianfar, Mehdi
Ph D. 1956 International Relations and Organization
Licenciate in Political Science, University of Teheran (Iran); BA, Alma College

Kiernan, Bernard Peter
Ph D. 1957 History
BA, MA, American University
Professor, Social Sciences, Concord College, (W.Va.)
706 Park Avenue, Princeton, West Virginia

Kim, Hyun Chul
Ph D. 1931 Education
BS, AM, Columbia University
American University Alumni Recognition Award, 1967
Prime Minister of Korea, 1962-63; Korean Ambassador to the United States, 1964-68
3701 Connecticut Avenue, N.W., Washington, D.C. 20008

Kim, Ryea Sik
Ph D. 1924 Political Science
BA, MA, State University of Iowa

Kim, Sun Kil
Ph D. 1962 Public Administration
BA, Stetson University; MA, American University
Pi Sigma Alpha
American Political Science Association, American Society for Public Administration
Associate Professor, Government, Western Kentucky University, 1964—
204 Elizabeth Avenue, Bowling Green, Kentucky 42101

Kim, To Youn
Ph D. 1930 Economics
Keio University (Tokyo); MA, Columbia University
National Citation and Order of Honor for contribution in the cause of Korean independence
Member of the Directorate, The Korea Chapter of the U.N. Association
Member of National Assembly, Republic of Korea, 1948-1965
250-33, 3rd Ka, Chungjung-ro, Seodaimun-ku, Seoul, Korea

Kindt, Lawrence Elliott
Ph D. 1940 Economics
BS, University of Alberta; MA, University of Minnesota
President, Lawrence E. Kindt & Associates, consulting firm
Member of Parliament, Government of Canada, 1958—
Nanton, Alberta, Canada

Kirk, Grover Cleveland
D Sci. 1926 Biology
AB, Temple University; MD, Johns Hopkins University
569 East Catherine Street, Chambersburg, Pennsylvania

Kittich, Zhiroin
DCL 1921 Law
LL B, National Law School, Belgrade University (Yugoslavia)

Kleiman, Jacob Myron
Ph D. 1963 Public Administration
BS, MS, City College of New York; MA, American University
American Political Science Association, American Society for Public Administration
Management Staff Officer, U.S. Public Health Service, 1963—
4008 Underwood Street, Hyattsville, Maryland 20782

Klein, Theodore James
Ph D. 1965 International Relations
BA, St. Francis College; MA, Georgetown University
African Studies Association, International African Institute
Research Editor, Information Service, Grolier Society, Inc., 1965—
Box 224, 10 Elm Road, Kings Park, Long Island, New York 11754

Kliston, Theodore S.
Ph D. 1956 Economics
BBA, City College of New York; MBA, New York University
American Economic Association
Vice-President, Financial Planning Corporation (N.Y.)*
21000 Highland Lakes Boulevard, North Miami Beach, Florida 33162

Koegel, Otto Erwin
DCL 1921 Law
LL B, LL M, National University Law School
Partner, Royall, Koegel, Rogers & Wells, New York, Washington, and Paris
200 Park Avenue, New York, New York 10017

Koginos, Emmanuel Theodore
Ph D. 1966 History
BA, Bowling Green University; MA, American University
Associate Professor, History, State University of New York, College at Buffalo, 1967—
1300 Elmwood Avenue, Buffalo, New York 14222

Kojouharoff, Constantine Dimitroff
Ph D. 1926 International Relations and Organization
Graduate, University of Sofia (Bulgaria)
Professor, Jurisprudence, National University Law School; Executive Officer, Bulgarian National Committee, n.d.

Korgan, Julius
Ph D. 1961 History
BA, Union City; MA, University of Nebraska

Koury, Enver M.
Ph D. 1958 International Relations and Organization
AB, George Washington University
Associate Professor, Government and Politics, University of Maryland, 1964—
3450 Toledo Terrace, Hyattsville, Maryland

Kraus, Mozelle Bigelow
Ed D. 1965 Education

BS, D.C. Teachers College; MA, George Washington University

Psi Chi, Sigma Xi, Kappa Delta Epsilon, Phi Delta Gamma

American Psychological Association, D.C. Psychological Association, American Association for the Advancement of Science

Research Associate, Smithsonian Institution , 1955—

2238 N. Burlington Street, Arlington, Virginia

Krieger, Joseph Leo
Ph D. 1956 Public Administration

BBA, MBA, City College of New York

Beta Gamma Sigma, Pi Sigma Alpha

Society for Personnel Administration, American Society for Public Administration, American Economic Association, American Statistical Association

Management Control Officer, HQ USAF (Directorate of Production and Programming), Pentagon, 1963—

3044 S. Buchanan Street, Arlington, Virginia 22206

Kshirsagar, Shiwaram Krishnarao
Ph D. 1957 International Relations and Organization

BA, MA, University of Bombay (India)

Reader, Head, Political Science, Sardar Patel University

Vallabh Vidyanagar, (W. Rly.), Dist. Kaira, Gujarat State, India

Kurke, Martin Ira
Ph D. 1963 Psychology

BA, New York University; MA, University of Buffalo

Psi Chi

American Association for the Advancement of Science, American Psychological Association, Ergonomics Research Society, Human Factors Society, Operations Research Society of America, Scientific Research Society of America, American Academy of Political and Social Science, Washington Operations Research Council

Senior Staff Analyst, Technical Operations, Inc., 1961—

6308 Hibbling Avenue, Springfield, Virginia 22150

Kurkjian, Badrig Malcolm
Ph D. 1960 Statistics

SB, Massachusetts Institute of Technology; MS, George Washington University

American Statistical Association, Biometric Society, Society for Industrial and Applied Mathematics, Institute of Mathematical Statistics

Chief, Computation Branch, Harry Diamond Laboratories, 1960—

6219 Stoneham Road, Bethesda, Maryland 20034

Kurylo, Walter
Ph D. 1960 Public Administration

LL B, Washington College of Law; BS, MA, American University

U.S. Department of Commerce Award, 1956

American Political Science Association

Transportation Planning Officer, Bureau of Public Roads, U.S. Department of Transportation

3227 Sherry Court, Falls Church, Virginia 22042

La Gaipa, John James
Ph D. 1957 Psychology

BA, Hobart College; MA, University of Michigan

American Psychological Association

Assistant Professor, Psychology, Northeast Louisiana State College

Route 4, 26 Oakwood Drive, Monroe, Louisiana 71201

Landau, Emanuel
Ph D. 1966 Economics

BA, College of the City of New York

Superior Service Award, Department of Health, Education and Welfare

American Public Health Association (Fellow), American Statistical Association, Econometric Society, Biometrics Society, Royal Society of Health, American Economic Association, Population Association of America

Statistical Advisor, U.S. Public Health Service, Department of Health, Education and Welfare

5906 Green Tree Road, Bethesda, Maryland 20034

Lander, Ezra
Ph D. 1961 Public Administration

BS, St. Louis University; MA, University of Cincinnati

2428 1/2 W. Belmont Avenue, Phoenix, Arizona*

Landrum, Opal Virginia
Ph D. 1966 Public Administration

AB, Alabama College; MA, American University

Executive Assistant to Commanding Officer and Chief, Plans and Research Office, Institute of Heraldry, Department of the Army, 1960—

1600 South Eads Street, Apt. 822-S, Arlington, Virginia 22202

Lane, Jr., George Bayless
Ph D. 1962 International Relations and Organization

BA, Trinity College

Pi Gamma Mu, Pi Sigma Alpha

American Political Science Association, American Academy of Political and Social Science

Assistant Chief, Graduate Academic Programs Branch, Bureau of Higher Education, U.S. Office of Education, 1962—

433 Northwest Drive, Silver Spring, Maryland 20901

Laski, Joseph Stanley
Ph D. 1965 Business Administration

BBA, George Washington University; MBA, University of Texas

Associate Professor, Management, Memphis State University, 1967—

4154 Minden Road, Memphis, Tennessee, 38117

Lathrop, Elbert Clyde
Ph D. 1916 Chemistry

AB, DePauw University

Superior Service Award US Department of Agriculture, 1948; Honorary Sc. D. (DePauw, 1916)

American Association for the Advancement of Science (Fellow), American Chemical Society, American Institute of Chemical Engineers, Acoustical Society of America, Society of Heating and Ventilating Engineers

Division Chief, Northern Regional Laboratory, U.S. Department of Agriculture, 1939-1952; Consultant, Techno-Pulp Organization, 1955—

6516 Mt. Hawley Road, Peoria, Illinois 61614

Latour, Conrad Franchot
Ph D. 1955 History

BA, Hobart College; MA, Stanford University

American Historical Association, American Political Science Association, American Association of University Professors

Professor and Chairman, History, Beaver College, 1967—

Department of History, Beaver College, Glenside, Pennsylvania 19038

Lawrence, Samuel Appleton
Ph D. 1965 Government

AB, Harvard University; MPA, American University

William A. Jump Award for exemplary service in public administration, 1965

American Society for Public Administration

Assistant Division Chief, Bureau of the Budget, 1965—

3710 Bradley Lane, Chevy Chase, Maryland 20015

Lemon, Frank Martin (Deceased)
Ph D. 1937 Philosophy

BA, MA, University of Virginia

College English Association

Assistant Professor, English, University of Maryland 1920-44

Lenski, Gerhard Emmanuel
Ph D. 1935 Philosophy

AB, Capital University; AM, George Washington University

Honorary Doctor of Divinity

Seminary Board, Washington Lutheran Ministerial Association (President), Washington Ministerial Association (President)

Pastor Emeritus, Grace Lutheran Church

3305 Sixteenth Street, N.W., Washington, D.C. 20010

Leontiades, Milton C.
Ph D. 1966 Economics

AB, MBA, Indiana University

Senior Consultant, Touche, Ross, Bailey and Smart, 1966—

435 E. 77th Street, Apt. 2G, New York, New York 10021

Levin, Jack
Ph D. 1934 Economics

BA, Reed College; LL B, Northwestern College of Law

American Political Science Association, American Economic Association, American Academy of Political and Social Science, American Academy for the Advancement of Science

Economist and Consultant

1016 N.E. 4th Street, Hollandale, Florida

Levin, Theodore Herzl
Ph D. 1965 Economics

BA, MA, Brooklyn College

Economist, U.S. Department of Housing and Urban Development

405 Torrington Place, Silver Spring, Maryland 20901

Levine, David Daniel
Ph D. 1955 Public Administration

BA, MA, University of Wisconsin

American Society for Public Administration, American Political Science Association

Program and Policy Planning Officer, Office of Administration, General Services Administration, 1966—

2403 Colston Drive, Silver Spring, Maryland 20910

Levine, Eugene

Ph D. 1960 Public Administration

BBA, College of the City of New York; MPA, New York University

Beta Gamma Sigma, Pi Sigma Alpha, American University Honor Society, Superior Service Award, Department of Health, Education and Welfare

American Statistical Association, American Public Health Association, National League for Nursing, National Interagency Council on Smoking and Health (Member, Board of Directors), District of Columbia League for Nursing (Member, Board of Directors)

Chief, Manpower Analysis and Resources Branch, Division of Nursing, United States Public Health Service, 1960—

2445 Lyttonsville Road, Apt. 112, Silver Spring, Maryland 20910

Levine, Milton

Ph D. 1956 Public Administration

BA, City College of New York; MA, Columbia University

American Psychological Association, American Political Science Association, American Association for the Advancement of Science

Director, National Register of Scientific and Technical Personnel, National Science Foundation, 1959—

9506 Lawnsberry Terrace, Silver Spring, Maryland 20901

Levy, Robert A.

Ph D. 1966 Business Administration

BS, MBA, American University

American University Honor Society, Phi Kappa Phi, Omicron Delta Epsilon, Wall Street Journal Student Achievement Award

American Economic Association, American Finance Association, Washington Society of Investment Analysts

President, Computer Directions Fund, Inc., 1966—

8811 Colesville Road, Apt. 508, Silver Spring, Maryland 20910

Lewis, Harold O.

Ph D. 1952 History

BA, Amherst; MA, Howard University

Professor, History, Howard University

1631 Webster Street, N.E., Washington, D.C. 20017

Lewis, Henry Martyn

DCL 1937 Law

BS, William and Mary; LL B, Southeastern University, LL M, American University

Section Chief, Internal Revenue Service, Retired (1964)

9805 Five Oaks Road, Vienna, Virginia 22180

Lewis, Stuart (Deceased)

Ph D. 1923 Political Science

D.Jur. 1922 Law

AB, AM, George Washington University; LL B, John Marshall Law School; LL M, MPL, National University Law School; DCL, Arkansas Law School

Journalist and Lawyer

Lewis, William Hubert

Ph D. 1960 International Relations and Organization

BA, MA, George Washington University

Ford Foundation Fellow

American Anthropology Association (Fellow), African Studies Association (Fellow)

Member, Staff Policy Planning, International Security Affairs, Department of Defense, 1967—

Lieb, Bernard

Ph D. 1953 Public Administration

BA, Upsala College; MA, New York University

Chief, Combat Materiel Division, Army Foreign Science and Technical Center, 1966—

9825 E. Light Drive, Silver Spring, Maryland 20901

Lieblein, Julius

Ph D. 1953 Mathematics

BS, City College of New York; MA, Brooklyn College

American Statistical Association, Mathematical Association of America, Institute of Mathematical Statistics, American Mathematical Society, Association for Computer Machinery

Mathematical Statistician, U.S. Post Office

1621 E. Jefferson Street, Rockville, Maryland 20852

Liebling, Herman I.

Ph D. 1961 Economics

BA, Brooklyn College; MA, American University

Meritorious Service Award, U.S. Treasury Department

Assistant Director, Office of Financial Analysis, U.S. Treasury Department

6317 West Halbert Road, Bethesda, Maryland 20034

Limmer, Ezekiel
Ph D. 1942 Economics

AB, Brown University; AM, Columbia University

American Economic Association, Society for Traffic and Transportation

Senior Industry Economist, Civil Aeronautics Board

812 Malcolm Drive, Silver Spring, Maryland 20901

Lindveit, Earl Wayne
Ph D. 1958 Public Administration

AB, Bethany College; MA, American University

Pi Sigma Alpha, American University Alumni Recognition Award (1967)

American Association for the Advancement of Science (Fellow), Aerospace Medical Association, American Political Science Association, American Society for Public Administration, American Academy of Political and Social Science, Aerospace Education Foundation (Education Advisory Council)

Senior Scientist, Battelle Memorial Institute, 1965-68; Director, Office of City and Regional Administration Research, Department of Housing and Urban Development, 1968—

4918 Earlston Drive, Washington, D.C. 20016

Link, Mae Mills
Ph D. 1951 History

BS, George Peabody College; MA, Vanderbilt University; Diploma, Air War College

Meritorious Civilian Service Award, U.S. Air Force (1956), Annual Awards for Outstanding Performance, U.S. Air Force (1958-59, 1960, 1961, 1962)

Aerospace Medical Association, Air Force Historical Foundation (Charter Member), American Association of Medical History, American Association of University Women, American Historical Association, American Institute of Aeronautics and Astronautics, American Medical Writers Association (Fellow), Association for the Advancement of Science, Association of Military Surgeons, National Federation of Business and Professional Women's Clubs, National Space Club, Society for the History of Technology, Societe International D'Histoire de la Medecine

Staff member, Space Medicine, Headquarters NASA, 1962—

1870 Wyoming Avenue, N.W., Washington, D.C. 20009

Lippitt, Gordon Leslie
Ph D. 1959 Psychology

BS, Springfield College; BD, Yale; MA, University of Nebraska

American Psychological Association

Professor, Behavioral Science, George Washington University

5605 Lamar Road, N.W., Washington, D.C. 20016

Liss, Sheldon B.
Ph D. 1964 History

BA, American University; MA, Duquesne University

Phi Alpha Theta

American Association of University Professors, American Historical Association, American Political Science Association, Conference on Latin American History, Latin American Studies Association

Associate Professor, History, University of Akron, 1967—

Akron, Ohio 44304

Little, Edward Southard
Ph D. 1959 Economics

AB, Swarthmore; MA, Fletcher School of Law and Diplomacy

Deputy Chief of Mission

American Embassy, Bern, Switzerland

Loasby, Roland
Ph D. 1942 History

BA, Washington Missionary; BA, University of London; MA, Columbia University

Retired, Chairman, New Testament Department, Andrews University

1210 Ednor Road, Ednor, Maryland 20904

Loeb, Louis S.
Ph D. 1964 Government

AB, Earlham College; MA, American University

Pi Sigma Alpha, Phi Kappa Phi

Professor, School of Government and Public Administration, American University, 1958—

4818 North 25 Street, Arlington, Virginia 22207

Lofton, Williston Henry
Ph D. 1945 Sociology

BA, MA, Howard University

Associate Professor, History, Howard University

654 Girard Street, N.W., Washington, D.C.

Lutz, Henry Frey (Deceased)
Ph D. 1918 Philosophy

AB, Hiram College; BD, Oberlin Theological Seminary

Lykes, Richard Wayne
Ph D. 1960 History

BA, The College of Wooster; MA, University of Pennsylvania

Phi Alpha Theta

American Historical Association, American Studies Association

Program Specialist (Administrative, International Education), U.S. Office of Education, 1960—

3304 Parkside Terrace, Fairfax, Virginia 22030

Lyon, Jr., Robert
Ph D. 1952 Economics

BA, City College of New York; MA, New York University; MA, George Washington University

Ford Foundation Fellow (Princeton, 1961)

American Economic Association, American Psychological Association

Associate Professor, Economics, Temple University

Department of Economics, Temple University, Philadelphia, Pennsylvania

Lyons, Schley Roosevelt
Ph D. 1964 Government

BS, BA, Shepherd College; MA, American University

Pi Sigma Alpha

American Political Science Association, New York State Political Science Association, International City Managers Association, American Association of University Professors

Assistant Professor and Acting Director, Urban Studies Center, University of Toledo, 1966—

2673 Goddard Road, Toledo, Ohio 43606

MacQuivey, Donald Ross
Ph D. 1956 Public Administration

AB, EE, MBA, Stanford University

Institute of Electrical and Electronic Engineers, Operations Research Society, American Institute for Aeronautics and Astronautics, Washington Philosophical Society, National Rocket Club

Senior Research Engineer, Stanford Research Institute, 1962—

743 Gailen Avenue, Palo Alto, California 94303

Macvaugh, Gilbert Stillman
Ph D. 1933 Psychology

BA, MA, American University

Psychotherapist, private practice

4402 Stanford Street, Chevy Chase, Maryland

Magoon, Charles Alden (Deceased)
Ph D. 1924 Biology

AB, Bates College

Research Coordinator, U.S. Department of Agriculture, 1918-48

Maiden, Arthur Lee
Ph D. 1933 Education

BA, Bridgewater College; BD, Bonebrake Seminary

DD, Lebanon Valley College

Juvenile Bureau and Domestic Relations Court, Arlington County, 1945-56; retired

3154 20th N., Arlington, Virginia

Makdisi, Nadim K.
Ph D. 1960 International Relations and Organization

BA, American University of Beirut (Lebanon); BS, Columbia University; MA, American University

Political Science Society of Lebanon

Editor, Alam Attijarat Magazine, The Johnston Int. Publishing Corp., 1965—

Strand Building, Hamra Street, Beirut, Lebanon

Malik, Abdul
Ph D. 1964 Economics

BSC, Ohio University; MA, American University

61 C West End View Building Road, AM 4 Karachi, Pakistan*

Malik, Nabila Abdul
Ph D. 1964 Economics

BA, American University at Cairo (Egypt); MA, American University

61 C West End View Building Road, AM 4 Karachi, Pakistan*

Mann, Vera Deane Hoffman
Ph D. 1957 Psychology

BA, New York University; MA, American University

4827 Broadbrook Drive, Bethesda, Maryland

Manno, Catherine Senf
Ph D. 1964 International Relations and Organization

BS, Antioch College; MA, American University

Training Advisor in Sampling, International Statistical Programs, Bureau of the Census

3726 Connecticut Avenue, N.W., Apt. 412, Washington, D.C. 20008

Mardini, Adnan Jawdat
Ph D. 1966 Economics

Licence in Law, Syrian University (Syria)

P.O. Box 974, Damascus, Syria

Margrave, Robert N.
Ph D. 1950 International Relations and Organization

BS, City College of New York

American Political Science Association, American Academy of Political and Social Science, American Society of International Law

U.S. State Department, detailed to Industrial College of the Armed Forces

3612 Macomb Street, Washington, D.C. 20016

Marshall, Louis Clinton
Ph D. 1964 Mathematics

BS, Howard University; AM, University of Pennsylvania

Associate Professor, Mathematics, Morgan State College

Baltimore, Maryland

Marshall, William Edgar
Ph D. 1951 International Relations and Organization

BA, MA, University of Texas

Professor, Political Science, Trinity University, 1959—

San Antonio, Texas

Maslow, Albert R.
Ph D. 1961 Psychology

BA, University of Maryland; MA, Catholic University

1862 Waverly Street, Palo Alto, California 94301

Matsumoto, Yoshiharu Scott
Ph D. 1957 Sociology

BS, MA, American University

American Sociological Association (Fellow), American Anthropological Association, Japanese Sociological Association

Associate Professor, Public Health, University of Hawaii

Mattern, Louis Wilson (Deceased)
Ph D. 1928 Education

BS, Pennsylvania State University

Max, Alfred Raymond
Ph D. 1942 Public Administration

BA, University of Delaware; Licencié en Droit, University of Paris

Directeur-redacteur en chef, *Realities*, 1946—; Co-director, French Institute of Public Opinion and Market Research

3 Boulevard Richard-Wallace, Neuilly, sur Seine, France

Maxam, William Pierce
Ph D. 1965 Government

BA, MA, Indiana State Teachers College

Associate Professor, Political Science, Indiana State University, 1964—

51 Longridge Road, Terre Haute, Indiana 47802

McClellan, Willard Cave
Ph D. 1953 History

BA, MA, University of Florida

Director, Correspondence Course Department, U.S. Navy Training Publications Center*

7303 Inzer Street, Springfield, Virginia

McCoy, Donald Richard
Ph D. 1954 History

BA, University of Denver; MA, University of Chicago

Phi Beta Kappa, Fulbright Professor, University of Bonn, Germany, 1962

American Historical Association, Organization of American Historians, American Political Science Association, American Studies Association of New York State, National Council for the Social Studies, National University Extension Association, Southwestern Social Studies Association, Western History Association

Professor, History, University of Kansas, 1964—

3017 Harvard Road, Lawrence, Kansas 66044

McDowell, Bruce Donald
Ph D. 1965 Public Administration

BA, American University; MCP, Georgia Institute of Technology

Pi Sigma Alpha

American Society for Public Administration, American Academy of Political and Social Science, American Society of Planning Officials, American Institute of Planners

Assistant Director of Planning, Metropolitan Washington Council of Governments, 1966—

8411 Queen Anne's Drive, Silver Spring, Maryland 20910

McDowell, John Chambers (Deceased)
Ph D. 1927 Economics

BA, University of Wisconsin; MA, American University

Head, Dairy Herd Improvement Bureau, United States Department of Agriculture

McGuire, Ollie Roscoe (Deceased)
SJD 1923 Law

AB, Louisana State University; AM, George Washington University

LL D, Louisiana State University (1938), Phi Delta Phi, Delta Sigma Rho, Psi Chi Omega

American Bar Association, Federal Bar Association, Virginia Bar Association

Attorney and Counsel to Comptroller General of the U.S., 1918-39

McKinney, Robert Stevenson (Deceased)
Ph D. 1936 Chemistry

BS, University of Cincinnati; MA, George Washington University

American Chemical Society, American Oil Chemists Society

Senior Chemist, Southern Utilization Research Branch, Bureau of Agricultural and Industrial Chemistry, U.S. Department of Agriculture, 1938-50; Chemist in Charge, U.S. Tung Oil Laboratory, 1950-61

McQueen, Donald Lee
Ph D. 1965 International Relations

BA, MA, Iowa State University

Pi Gamma Mu, Pi Sigma Alpha, Phi Kappa Phi

American Historical Association, American Academy of Political and Social Science

Teacher, English, Oceanside Senior High School, 1963—

21 Waverly Avenue, East Rockaway, Long Island, New York 11518

Medish, Vadim
Ph D. 1963 Area Studies

AB, University of Pennsylvania; MA, American University

Associate Professor and Chairman, Languages and Linguistics, American University, 1963—

2927 Arizona Avenue, N.W., Washington, D.C. 20016

Mehl, Jr., Joseph Martin
Ph D. 1962 History

BA, MA, University of Maryland

Associate Professor, History, Mansfield State College

Carey Creek Apt B 309, Mansfield, Pennsylvania 16933

Mellon, Harry George
DCL 1922 Law

LL B, Richmond College; LL M, MPL, National University Law School

Middleton, Howard E.
Ph D. 1924 Biology

BS, MS, State College of Iowa

Assistant Head, Watershed Hydrology Section, Agricultural Research Service, United States Department of Agriculture, 1916-55; Agricultural Research Advisor, U.S. Overseas Mission to Brazil, 1955-57; Retired

1202 Chichester Avenue, Orlando, Florida*

Miller, Boulton Bainbridge
Ph D. 1961 Public Administration

BA, MA, George Washington University

Colonel, U.S. Army, retired

Miller, Clifford John
Ph D. 1959 Government

BA, University of Minnesota; MPA, Syracuse University; Diploma, National War College

Assistant Chief, Military Division, Bureau of Budget, 1965—

4709 Bristow Drive, Annandale, Virginia 22003

Miller, Herman P.
Ph D. 1954 Economics

BSS, City College of New York; MA, George Washington University

Gold and Silver Medals for Outstanding Service, U.S. Department of Commerce

American Economic Association, American Statistical Association (Fellow), Population Association of America

Chief, Population Division, U.S. Bureau of Census, 1965—

105 Bluff Terrace, Silver Spring, Maryland

Minai, Ahmad
Ph D. 1961 Economics

Licence, University of Teheran (Iran); MA, University of Glasgow (Scotland)

Mindlin, Dorothee Friedlander
Ph D. 1965 Psychology

BA, University of Chicago; MA, Columbia University

American Psychological Association

Director, D.C. Alcoholic Clinic

6408 Bannockburn Drive, Bethesda, Maryland 20034

Mitchell, Lonnie Edward
Ph D. 1958 Psychology

AB, Lincoln University (Penn.); MA, American University

Psi Chi

American Psychological Association

Deputy Director, Area B, Mental Health Center, D.C. Department of Health, and Assistant Professor Psychiatry, Howard University, College of Medicine

4320 21 Street, N.E., Washington, D.C. 20018

Moe, George Robert
Ph D. 1966 International Relations

BS, U.S. Military Academy; Diploma, Heidelberg University (Germany); MA, University of Maryland

Pi Sigma Alpha, Pi Gamma Mu

American Political Science Association, Modern Language Association, American Association of Teachers of German

Professor and Chairman, Languages and Social Sciences, South Dakota School of Mines and Technology, 1966—

Canyon Lake Heights, Rapid City, South Dakota, 57701

Montano, Severino Medina
Ph D. 1949 Public Administration

BSE, University of the Philippines; MFA, Yale

Presidential Award by the Philippines for pioneering in the Arena Theatre movement (1961), Rockefeller grant for 12 years (1952-64) for community theatre work in the Philippines

Managing Director, Arena Theatre, Philippine Normal College, 1953—; Professional Playwright

Villa Monte Bello, 69 San Francisco Street, Barrio Kapitaylo, Pasig, Rizal, Philippines

Morales-Yordan, Jorge
Ph D. 1958 International Relations and Organization

BA, University of Puerto Rico; LL B, George Washington University; MA, American University

Sociedad Puertorriquena de Administracion Publica

Associate Professor, University of Puerto Rico

251 Duke Street, University Gardens, Rio Piedras, Puerto Rico 00927

Morganston, Charles Emile
Ph D. 1922 Political Science

BS, Cumberland University; LL B, LL M, MPL, Georgetown University

Lawyer, retired

4417 Illinois Avenue, N.W., Washington, D.C. 20011

Morrill, Jr., Chester
Ph D. 1958 Public Administration

BA, MA, American University

National Guard Association of the United States, Association of the U.S. Army, Systems and Procedures Association, Armed Forces Management Association, American Management Association

Program Officer, U.S. Government, 1963—

143 N. Abingdon Street, Arlington, Virginia 22203

Murdoch, Ruth Mae Rittenhouse
Ed D. 1960 Education

BA, Andrews University; MS in Ed., University of Southern California

National Education Association, Association for Supervision and Curriculum Development, National Society for the Study of Education, National Commission on Teacher Education and Professional Standards, Association for Childhood Education International

Professor, Education, Andrews University, 1959—

200 University Boulevard, Berrien Springs, Michigan 49104

Murdzek, Benjamin Peter
Ph D. 1960 History

BA, American University

Associate Professor, History, Lakehead University*

Port Arthur, Ontario, Canada*

Murphy, James Thomas
Ph D. 1965 History

BA, MA, American University

Phi Alpha Theta, Pi Gamma Mu

National Association for the Education of Young Children

Associate Secretary, Information Service, Association for Childhood Education, International 1962—

3830 39th Street, N.W., Washington, D.C. 20016

Musmanno, Michael Angelo (Deceased)
DJS 1923 Law

LL B, Georgetown University; BA, MA, George Washington University; LL M, MPL, National University

American University Alumni Recognition Award (1963)

International Academy of Law and Sciences (Fellow), Commission on International Rules of Judicial Procedure

Justice, Supreme Court of Pennsylvania, 1951-68

Mustafa, Husain Mohamed
Ph D. 1964 Public Administration

BA, College of Law (Baghdad); M Sc., Ohio State University

Associate Professor, Political Science, Kent State University

760 W. Main Street, Kent, Ohio 44240

Mustafa, Urabi S.
Ph D. 1966 International Relations

BS, Roosevelt University; MA, American University

Associate Professor, International Relations, and Director, International Studies, Shaw University, 1966—

3939 Glenwood Avenue, #201 Raleigh, North Carolina 27602

Myer, Ruth Estelle
Ph D. 1963 Psychology

AB, Hunter College; MA, George Washington University

American Psychological Association, District of Columbia Psychological Association

Research Psychologist, Civil Service Commission

520 N Street, S.W., Washington, D.C. 20024

Nagay, John Adam
Ph D. 1964 Psychology

BS, MS, University of Pittsburgh

American Psychological Association, Midwestern Psychological Association, Eastern Psychological Association, District of Columbia Psychological Association, International Congress of Psychology

Sigma Xi, Psi Chi

Assistant Head, Personnel and Training Research Branch, Office of Naval Research, 1966—

3315 Barkley Drive, Fairfax, Virginia 22030

Naidel, Simon
Ph D. 1951 Economics

BS, College of the City of New York; MA, Columbia University

Phi Beta Kappa

American Economic Association, American Statistical Association, The Econometric Society

Professor Emeritus, Economics, American University, 1956—

2828 Connecticut Avenue, N.W., Washington, D.C. 20008

Naseem, Haneef Ahmed
Ph D. 1960 Economics

BA, Punjab University (India); MA, Delhi University (India)

Nasir, Khalil Ahmad
Ph D. 1957 International Relations and Organization

BA, University of the Punjab (India); MA, Northwestern University

Associate Professor, History and Political Science, C.W. Post College

5 Whitman Ave., Syosset, Long Island, New York

Nations, Gilbert Owen (Deceased)
Ph D. 1919 Religion

BS, Lebanon; Ph. M, Hiram College; JD, Oklahoma City University

LL D, Eugene

Editor and Correspondent; Lawyer 1902-50; Professor, Roman Law, Canon Law and Legal History, American University 1920-35

Neel, Virginia Payne (Mrs. Mills)
Ph D. 1951 International Relations and Organization

BA, Emory and Henry College; MA, YMCA Graduate School (Tenn.)

National Council of Administrative Women in Education, National Education Association, American Political Science Association, American Historical Association, Southern Political Science Association, American Academy of Political and Social Science, American Society of International Law, Maryland State Teachers Association

Professor, Political Science, Frostburg State College, 1965—

311 Maryland Avenue, Cumberland, Maryland

Neff, Kenneth Lee
Ph D. 1965 International Relations

BA, University of Denver; MA, Johns Hopkins University

Associate Professor, Institute for International Studies in Education, Michigan State University

Negus, Mildred E.
Ph D. 1966 Public Administration

BS, Rhode Island State College; MA, George Washington University

Management Analyst, D.C. Department of Public Health

11107 West Avenue, Kensington, Maryland 20795

Nelson, William Howard
Ph D. 1965 Psychology

BS, MA, University of Nebraska

Commander, U.S. Navy

7 North 77th Avenue, Pensacola, Florida 32506

New, Edward Funston
DCL 1923 Law

BA, Southwest Missouri State College; LL M, American University

RR #4, Noblesville, Indiana 46060

Nighswonger, William Asa
Ph D. 1966 International Relations

BA, Oklahoma City University; BD, Southern Methodist University; MA, American University

Assistant Professor, Political Science, Sonoma State College, 1966—

135 Alderbrook Drive, Santa Rosa, California 95405

Nipe, Merlin Harris
Ph D. 1937 History

BA, MA, American University

Chief, History and Government Division and Assistant Deputy Director, Legislative Reference Service, Library of Congress, Retired

Nishimoto, Kenichi
Ph D. 1962 Public Administration

AB, University of California; MA, American University

American Political Science Association, American Society for Public Administration, American Public Health Association, Management in Public Health

Chief, Management Appraisal Office, Division of Indian Health, Public Health Service, 1963—

7409 Holly Avenue, Takoma Park, Maryland 20012

Nupp, Byron LeRoy
Ph D. 1965 Government

Ph B, Loyola College; MA, American University

Pi Sigma Alpha

International City Managers Association, American Society for Public Administration, Transportation Research Forum, U.S. National Commission, Pan American Railway Congress Association (Executive Secretary)

Transportation Economist, Department of Commerce, 1965—

328 North Edison Street, Arlington, Virginia 22203

Obern, Alfred Gaylord
Ph D. 1955 Political Science

BA, The Principia College; MA, American University

Ford Foundation Faculty Fellow

Associate Professor, Public and International Affairs and Director of Special Training, Graduate School of Public and International Affairs, University of Pittsburgh, 1963—

Box 368, Bradford Woods, Pennsylvania 15015

O'Keefe, Ruth Ann Harris Davy
Ed D. 1965 Education

BA, Bryn Mawr College; MA, University of Maryland

Council for Exceptional Children, American Association on Mental Deficiency, National Association of Public School Adult Educators

Senior Associate, Planning Research Corporation (Educational Research), 1965—

3711 Benton Street, N.W., Washington, D.C. 20007

Olins, Peter Zeedonis
Ph D. 1927 History

University of St. Petersburg, University of Riga; MA, American University

Olmstead, Lewis Bertie (Deceased)
Ph D. 1933 Chemistry

BS, University of Nebraska; BS, Fremont Normal School

Soil Physicist, Department of Argiculture; Process control engineer, Argus Optical Company

Onyewu, N. D. Ukachi
Ph D. 1966 International Relations

BA, Howard University

Assistant Professor, Government and Politics, University of Maryland

2400 16th Street, N.W., Washington, D.C. 20009

Osterbind, Carter Clarke
Ph D. 1953 Economics

BS, Virginia Polytechnic Institute; MS, University of Virginia

American Economic Association, American Marketing Association

Research Professor and Director, Bureau of Economic and Business Research, University of Florida

2105 N.W. Seventh Lane, Gainesville, Florida

Packard, Duane Leslie
Ed D. 1962 Education

BA, Mankato State Teachers College; MA, George Washington University

5119 Spring Drive, Washington, D.C. 20022

Page, Harry Robert
Ph D. 1966 Business Administration

AB, Michigan State; MBA, Harvard

Council of Churches of Greater Washington (Treasurer and Board of Directors), National Parks Association (Board of Trustees), American Association of University Professors

Associate Professor, Business Administration, George Washington University, 1966—

3612 North Glebe Road, Arlington, Virginia 22207

Paige, Joseph Clemont
Ed D. 1965 Education

BS, A and T College of North Carolina; M Ed., Boston University

Assistant Professor, Physics, Howard University

5601 Chevy Chase Parkway, N.W., Washington, D.C.

Pajak, Roger Frank
Ph D. 1966 Area Studies

BA, Michigan State College; MA, Harvard University

Soviet Area Analyst, U.S. Government

5129 Red Fox Drive, Annandale, Virginia 22003

Parikh, Abhaykumar Chhotalal
Ph D. 1963 Economics

BA, Gujarat College (India); LL B, Government Law School (India); MA, School of Economics and Sociology (India)

Senior Financial Analyst, Esso Standard Eastern, Bombay, India, 1967—

c/o Chhotalal T. Parikh, Bunglow No. 9A, Mahavir Society Ellisbridge, Ahmedabad; Gujarat State, India

Park, Bum-Joon Lee
Ph D. 1965 International Relations

AB, University of Kentucky

Faculty member, Ewha Women's College, Seoul, Korea

75-12 2 Ka Bo-Mun Yong, Dong Dai Mun Ku, Seoul, Korea*

Park, Chung Soo
Ph D. 1965 Public Administration

BS, Georgetown University; MA, American University

Special Assistant to the Minister of Korea*

75-12 2 Ka Bo-Mun Yong, Dong Dai Mun Ku, Seoul, Korea*

Pasha, Zahida Hamid
Ph D. 1951 Sociology

BA, American University of Beirut (Lebanon); MA, Georgetown University

Attached to Ministry of National Economy*

Mazraa, Damascus, Syria*

Patino, Abelardo
Ph D. 1955 Political Science

BS, Northwest Missouri State Teachers College; MA, Notre Dame University

Patrick, Arthur Shepard
Ph D. 1956 Public Administration

B Ed., Whitewater State Teachers College (Wisconsin); MA, State University of Iowa

Phi Kappa Phi, Phi Delta Kappa, Delta Sigma Pi

Administrative Management Society, Association for Educational Data Processing, National Association for Business Teachers Education (President), American Management Association

Professor, Information Systems Management and Business Education, University of Maryland, 1942—

4214-B Guilford Drive, College Park, Maryland 20740

Patrick, Farrell Gee
Ph D. 1966 Public Administration: Technology of Management

BS, U.S. Military Academy; MA, American University

1219 Charleston East Drive, Indianapolis, Indiana 46219*

Patterson, Stewart Marshall
Ph D. 1957 International Relations and Organization

BA, M Ed., Boston University

Educational Specialist, Office International Training, Agency for International Development, U.S. Department of State

1613 Harvard Street, N.W., Washington, D.C. 20009

Patton, John Strohm
Ph D. 1963 International Relations and Organization

BS, University of Southern California

Special Adviser to the Assistant Administrator for Policy, National Aeronautics and Space Administration

4336 North 26th Street, Arlington, Virginia 22207

Patwary, Kamini Mohan
Ph D. 1960 Statistics

BS, University of Gauhati (India); MS, Virginia Polytechnic Institute

Pi Mu Epsilon

Institute of Mathematical Statistics, American Statistical Association, Biometrics

Statistical Consultant, Pan American Health Organization

21 Slipe Penn Road, P.O. Box 37, Jones Town Post Office, Kingston 12, Jamaica

Paul, Alice
DCL 1928 Law

AB, Swarthmore College; MA, Ph D, University of Pennsylvania; LL M, American University; LL B, Washington College of Law

c/o National Womens Party, 144 Constitution Avenue, N.E., Washington, D.C. 20002

Pauling, Frederick Joseph
Ph D. 1963 Psychology

AB, Hunter College

Associate Professor, John Jay College, City University of New York, 1967—

John Jay College of Criminal Justice, City University of New York, New York, New York 10003

Peck, George Curtis (Deceased)
DCL 1926 Law

LL B, George Washington University; LL M, American University

Consultant to Military Affairs Committee, House of Representatives

Pelissier, Raymond Francis
Ph D. 1958 Economics

BS, MS, University of Massachusetts; IA, Harvard University Graduate School of Business

Society for the Advancement of Management, Association of Management Consultants (Vice President), American Society of Training Directors

Management Consultant, Self-employed, 1964—

5150 N. Third Street, Arlington, Virginia

Pergler, Charles (Deceased)
DCL 1927 Law

LL B, Chicago Kent College of Law; LL M, American University

LL D, National University (1928), American University Alumni Recognition Award (1952), Sigma Nu Phi

National Panel of Arbitrators, American Arbitration Association

Diplomatic Service of Czechslovakia, Minister to Japan; Member, parliament of Czechslovakia, 1929-31; Professor of Constitutional law and jurisprudence, Dean, School of Law, National University, Washington, D.C., 1936-46; Special Advisor to Military Government, Korea, 1946-48

Persh, Louis
Ph D. 1953 Sociology

BS, City College of New York; MA, New York University

2516 Amherst Road, Hyattsville, Maryland 20783

Person, Jr., Philip Hilmar
Ph D. 1964 Sociology

BS, MS, University of Wisconsin

Chief, Special Areas Studies Section, Biometry Branch, National Institute of Mental Health

1404 Bernerd Place, Rockville, Maryland 20851

Perusse, Roland Irving
Ph D. 1955 International Relations and Organization

BA, University of Wisconsin

American Political Science Association, American Academy of Political and Social Science

Chairman and Director, Inter-American Studies, Inter-American University, 1966—

Calle Jaen 320, Rio Piedras, Puerto Rico 00936

Peters, Julius Melvin
Ph D. 1954 Psychology

BA, MA, George Washington University

American Psychological Association

Biomedical and Behavioral Scientist, Space Systems Center, International Business Machines Corporation, 1965—

15712 Jones Lane, Gaithersburg, Maryland 20670

Petersen, Richard James
Ph D. 1963 History

BA, St. Olaf College; MA, American University

American Historical Association, National Conference on Research Administration

Grants Coordinator, and Assistant Professor, History, Marquette University, 1963—

4206 West Haven Avenue, Mequon, Wisconsin

Petrov, Victor P.
Ph D. 1954 International Relations and Organization

BS, MA, American University

Association for Asian Studies, Association of American Geographers, American Association of Teachers of Slavic and East European Languages, American Geographic Society, Royal Canadian Geographic Society, National Geographic Society

Professor, Geography, Shippensburg State College, (Penna.) 1965—

Permanent: 8919 Battery Road, Alexandria, Virginia 22308

Phillips, Robert Leonard
Ph D. 1965 Psychology

BS, Allegheny College; MS, Pennsylvania State University

Psychologist, Institute for Juvenile Research, 1965—

829 North Dearborn, Chicago, Illinois 60610

Pincus, Joseph
Ph D. 1953 International Relations and Organization

BS, City College of New York; MA, American University

Society for International Development

U.S. Department of State, Economic Advisor

USOM, Asuncion, Paraguay

Pinkett, Harold Thomas
Ph D. 1953 History

AB, Morgan College; AM, University of Pennsylvania

Society of American Archivists (Fellow), American Historical Association, Agricultural History Society, Organization of American Historians, Forest History Society

Senior Archivist, National Archives, 1962—

4019 21st Street, N.E., Washington, D.C. 20018

Poffenberger, Paul Routzahn
Ph D. 1953 Economics

BS, MS, University of Maryland

Alpha Zeta, Omicron Delta Kappa

American Farm Economics Association, American Association for the Advancement of Science (Fellow), National Planning Association

Assistant Dean, Instruction, (1956-) and Professor, Agricultural Economics, College of Agriculture, University of Maryland, 1953—

2400 Fairland Road, Silver Spring, Maryland 20904

Polach, Jaroslav George
Ph D. 1962 Economics

AB, College (Reformed Gymnasium) Czechoslovakia; Dr. Law, Masaryk University (Czechoslovakia); MA, American University; MCL, George Washington University

American Economic Association, American Statistical Association, Society for International Development, American Society for International Law

Research Associate, Resources for the Future Inc., 1961—

225 South Panorama Drive, Oxon Hill, Washington, D.C. 20021

Polinsky, Ella Joan
Ph D. 1959 Economics

BA, Brooklyn College; MA, American University

American Statistical Association, American Economic Association, Industrial Relations Research Association

Labor Economist and Social Science Research Analyst, Social Security Administration, U.S. Department of Health, Education and Welfare

116 West University Parkway, Baltimore, Maryland 21210

Posner, Ben
Ph D. 1962 Public Administration

BS, University of Arizona; MA, George Washington University

Distinguished Service Award, U.S. Information Agency, 1961

American Society for Public Administration, Federal Government Accountants Association, Financial Management Roundtable (General Chairman one year)

Assistant Director for Administration, U.S. Information Agency, 1963—

2405 Eccleston Street, Silver Spring, Maryland 20902

Power, Richard Lyle
Ph D. 1946 History

BA, Earlham College; MA, Harvard University

32 Wallace Lane, Apt. D., Indianapolis, Indiana 46201

Price, David James (Deceased)
Ph D. 1931 Economics

BS, Pennsylvania State College; MS, George Washington University

Tau Beta Pi, Sigma Gamma Epsilon, Superior Service Award, U.S. Department of Agriculture (1949)

Principal chemical engineer, Bureau of Agricultural Chemistry and Engineering and Bureau of Agricultural and Industrial Chemistry, U.S. Department of Agriculture, 1914-49

Proffitt, Maris Marion
Ph D. 1936 Education

Ph B., Franklin College; MA, University of Chicago

Phi Delta Kappa
National Education Association

Consultant and Specialist in Guidance and Industrial Education, U.S. Office of Education, 1925-n.d.

3209 Tennyson Street, N.W., Washington, D.C. 20015*

Pugh, Evelyn Littleton
Ph D. 1966 History

BS, East Carolina College; AM, Duke University

Assistant Professor, History, George Mason College of the University of Virginia

4228 Worcester Drive, Fairfax, Virginia 22030

Putney, Albert Hutchinson (Deceased)
Ph D. 1918 History

AB, Yale University; LL B, Boston University; DCL, DePaul University

LL D, Illinois College of Law

Head, Near East Division, United States State Department, 1913-20; Director, School of Political Sciences and Professor, Constitutional Law and Diplomatic History, American University, 1920-28

Rainey, Gene Edward
Ph. D. 1966 International Relations

BA, George Washington University; BS, Harding College; MA, Fletcher School of Law and Diplomacy

Woodrow Wilson Fellow, Phi Alpha Theta, Pi Gamma Mu

American Political Science Association

Assistant Professor, Ohio State University, 1966—

567 Stinchcomb Drive, Columbus, Ohio

Raj, Hilda
Ph D. 1958 Sociology

BA, MA, University of Madras (India); BA, MA, Cambridge University (England)

2475 Virginia Ave., N.W., Washington, D.C. 20037

Rajaee, Ahmad Ali
Ph D. 1964 Area Studies

Licentiate, University of Teheran (Iran); MA, American University

63 Kouye Golestan, Pahlavi Avenue, Shemiran, Teheran, Iran

Ramundo, Bernard Antony
Ph D. 1966 International Relations

BA, College of the City of New York; AM, Columbia University

Assistant, Directorate of Foreign Military Rights Affairs, Department of Defense, Pentagon

10123 Capitol View Avenue, Silver Spring, Md. 20910

Randall, Raymond Lewis
Ph D. 1962 Public Administration

BA, George Washington University; MS, Syracuse University

Director, Institutional and Social Service, Office of Technical Cooperation and Research, AID*

Rasmussen, John Edward
Ph D. 1961 Psychology

BS, MA, Northwestern University

John Shaw Billings Award of the Association of Military Surgeons (1961)

American Psychological Association (Fellow), Maryland Psychological Association (Fellow), Royal Society of Medicine (Fellow), District of Columbia Psychological Association, Association of Military Surgeons, American Association for the Advancement of Science

Captain, MSC, USN, Office of Naval Research, London, 1964—

c/o FPO New York 09510
73 Lake View, Edgware, Middlesex, England

Rast, Robert
Ph D. 1963 Psychology

BA, University of Texas; MA, Catholic University

American Psychological Association

Chief Clinical Psychologist, San Antonio State Adult Mental Health Clinic, 1958—

350 Bonnell, San Antonio, Texas 78223

Ratliff, Rob Roy
Ph D. 1953 Public Administration

BS, MA, American University

Foreign Service Officer, U.S. Department of State, 1963—

608 Warfield Drive, Rockville, Maryland 20850

Raval, Sushila Navnit
Ed D. 1962 Education

B Sc., Gujarat University (India); MA, American University

Assistant Professor, Education, State College at New Paltz, New York*

P.O. Box 293 - 14 Duzine Road, New Paltz, New York 12561*

Rawson, David Paul
Ph D. 1966 International Relations

BA, Malone College; MA, American University

Assistant Professor, Political Science, Malone College, 1965—

1110 17th Street, N.W., Canton, Ohio

Raymond, Edward Ashwell
Ph D. 1952 International Relations and Organization

AB, Yale; MA, George Washington University

Medaille de la Reconnaissance Francaise (1945), Legion of Merit (1966), Delta Sigma Rho

American Political Science Association, Association of United States Army, Reserve Officers Association, Retired Officers Association

Assistant Professor, Political Science, University of Connecticut, Stamford Branch, 1966—

31 1/2 Noroton Avenue, Darien, Connecticut 06820

Raymond, Lowell William
DCL 1922 Law

AB, Oberlin; LL B, Georgetown University, LL M, National University Law School

Chi Psi Omega, Phi Delta Phi

U.S. Hearing Examiner, Social Security Administration (Cleveland, Ohio) 1940-60, Retired

880 Beverly Road, Cleveland Heights, Ohio 44121

Ready, Marie Margaret
Ph D. 1925 Education

BA, George Peabody College for Teachers; MA, Vanderbilt

Physical Education Association, Recreation Association

Associate Specialist, U.S. Office of Education, 1920—, Retired

1623 Lanier Place, N.W., Washington, D.C. 20009

Redfield, Arthur Huber (Deceased)
Ph D. 1942 Economics

BA, MS, George Washington University

Analyst, Bureau of Mines, Department of Interior

Reed, Spencer Harris
Ph D. 1931 History

Ph B., Lafayette College; AM, American University

Reid, John David
Ph D. 1937 Chemistry

BS, Washington State University; MA, George Washington University

Superior Service Awards, U.S. Department of Agriculture

American Chemical Society, American Association of Textile Chemists and Colorists, American Institute of Chemists

Chemist, Southern Regional Research Laboratory, U.S. Department of Agriculture, 1941—

4519 Banks Street, New Orleans, Louisiana 70119

Renfield, Richard Lee
Ph D. 1965 International Relations
BA, Harvard; MA, University of Maryland
National Education Association, National Education Association Staff Organization (President)
Associate Secretary, Educational Policies Commission, National Education Association, 1965—
2200 Leeland Drive, Falls Church, Virginia 22043

Requé Alcócer, Luis
Ph D. 1953 International Relations and Organization
Licentiate, University of San Simon (Bolivia); MA, American University
Executive Secretary, Inter-American Commission on Human Rights, Organization of American States
6101 Berkshire Drive, Bethesda, Maryland

Rew, Joung Yole
Ph D. 1962 Area Studies
BA, Washington State University; MA, Georgetown University
Korean Institute of International Relations (Research Director)
Associate Professor, Hankuk University of Foreign Studies, Seoul, Korea, 1965—
#88-12 Sang-Soo-Dong, Mapoku, Seoul, Korea

Rhoads, James Berton
Ph D. 1965 History
AB, MA, University of California (Berkeley)
Meritorious Service Award, General Services Administration, 1966, Phi Alpha Theta, Phi Kappa Phi
Society of American Archivists (Fellow), American Historical Association, Organization of American Historians
Archivist of United States, National Archives and Records Service, General Services Administration, 1952—
7002 Cipriano Road, Lanham, Maryland 20801

Richard, D. L. (Deceased)
Ph D. 1959 Economics
BS, Bowling Green State University
Professor, Accounting, University of Kentucky

Rifai, Abdul Halim
Ph D. 1966 International Relations
BA, American University of Beirut (Lebanon); MA, Indiana University
Pi Gamma Mu
American Political Science Association
Assistant Professor, History and Political Science, Berea College, 1966—
Campus Post Office 1577, Berea College, Berea, Kentucky 40403

Riffenburg, Harry Buchholz (Deceased)
Ph D. 1924 Chemistry
Ph B, AM, University of Denver
Associate Professor, Chemistry and Chemical Engineering, Virginia Polytechnic Institute, 1928-48

Rivers, William Lawrence
Ph D. 1960 Government
BA, MA, Louisiana State University
Professor, Communications, Stanford University
665 Alvarado Road, Stanford, California 94305

Robinson, Donald Louis
Ph D. 1963 International Relations and Organization
BA, MA, Northwestern University
American Academy of Political and Social Science, American Historical Association, Organization of American Historians, American Political Science Association
Administrative Assistant to member of Congress, 1963—
1817 Kenyon Street, N.W., Washington, D.C. 20010

Rodgers, Philip Ray (Deceased)
Ph D. 1947 Political Science
BS, MS, University of Utah
District of Columbia Bar Association
Member, National Labor Relations Board, 1953-55 and Chairman, 1955-64

Rogers, John Michael
Ph D. 1960 International Relations and Organization
AB, Syracuse University; MA, American University
American Sociological Association, American Political Science Association, American Society of International Law
Coordinator, Institute of Aerospace Safety and Management, University of Southern California, 1956—
University of Southern California, Los Angeles, California 90007

Rooney, Walter Richard
Ph D. 1964 Public Administration
BEE, Georgia Institute of Technology; MA, American University
Pi Sigma Alpha
Institute of Electrical and Electronics Engineers, American Society for Engineering Education, American Society for Public Administration
Director, Georgia Science and Technology Commission, 1965—
3254 Woodrow Way, N.E., Atlanta, Georgia 30319

Rosen, Howard
Ph D. 1956 Economics

BA, University of Newark; MA, New Jersey State Teachers College

Distinguished Service Award, US Department of Labor

American Economic Association, Industrial Relations Research Association, American Vocational Guidance Association

Assistant Director of Research, Manpower Administration, U.S. Department of Labor, 1962—

5204 Wyoming Road, Washington, D.C. 20016

Rosenthal, Irving
Ph D. 1965 Public Administration

AB, City College of New York; MPA, Cornell University

Society for International Development, American Society for Public Administration

Budget Examiner, U.S. Bureau of Budget, 1963—

5107 Wehawken Road, Washington, D.C. 20016

Rosnow, Ralph Leon
Ph D. 1962 Psychology

BS, University of Maryland; MA, George Washington University

Psi Chi, Research grants from National Institute of Mental Health (1964-65, 1965-66) and National Science Foundation (1966-68)

Society of Experimental Social Psychology, American Association for the Advancement of Science, American Psychological Association, Eastern Psychological Association, Massachusetts Psychological Association, Psychometric Society

Associate Professor, Temple University, 1967—

Society Hill Towers #10A, 210 Locust Street, Philadelphia, Pennsylvania 19106

Rossman, Joseph
Ph D. 1930 Psychology

BS, University of Pennsylvania; LL B, MA, George Washington University; MPL, Washington College of Law

Sigma Xi

American Bar Association, American Chemical Society, American Patent Law Association, American Institute of Chemists, American Association for the Advancement of Science, Admitted to bar: D.C., Pennsylvania, U.S. Court of Customs and Patents Appeals, U.S. Supreme Court

Patent attorney, Self-employed, 1946—

1714 Rittenhouse Square, Philadelphia, Pennsylvania 19103

Roth, Harold H.
Ph D. 1959 Public Administration

BA, College of the City of New York; MA, Columbia University; MA, American University, LL B, Washington College of Law

National Education Association, American Political Science Association, American Society for Public Administration, American Bar Association, Bar Association of the District of Columbia

Professor, School of the Government and Public Administration, American University, 1946—

3700 Massachusetts Avenue, N.W., Washington, D.C. 20016

Rothman, Sam
Ph D. 1959 Public Administration

BS, Long Island University; MA, American University

Deputy Director, Exploratory Development Division, Navy Department

613 Hyde Road, Silver Spring, Maryland

Rotkis, Walter Anton
Ph D. 1965 Business Administration

AB, University of Illinois; M Lit., University of Pittsburgh; MBA, American University

Retired, USAF, Nellis Air Force Base, Nevada, 1966; Product Assurance Staff Engineer, Lockheed Missiles and Space Corporation

12120 Viewoak Drive, Saratoga, California 95070

Rowland, Henry Hosie
Ph D. 1928 Philosophy

BA, Harvard; MA, Columbia; BD, Union Theological Seminary; Th M, Colgate-Rochester

Methodist Minister, Retired

304 Congress Street, Berkeley Springs, West Virginia 25411

Rubinowitz, Arthurea Brown
Ed D. 1966 Education

BA, MA, American University

Association for Supervision and Curriculum Development, American Educational Research Association, National, State and local Educational Associations and Elementary Principals Associations

Elementary Principal, Fairfax County Public Schools, Virginia, 1961—

6115 Clearbrook Drive, Springfield, Virginia 22150

Rundell, Jr., Walter
Ph D. 1957 History

BS, BJ, University of Texas; MA, American University

American University Honor Society

American Historical Association, Organization of American Historians, Western History Association, Southern History Association, American Studies Association, American Association of University Professors, National Council for the Social Studies

Professor, History, University of Oklahoma, 1967—

2613 Meadowbrook Drive, Norman, Oklahoma 73069

Russell, Willis Cleaves
Ph D. 1933 History

BA, Wesleyan University; MA, American University

American Historical Association

Professor Emeritus, Alfred University, 1934—

95 No. Main Street, Alfred, New York 14802

Rutherford, Geddes William (Deceased)
Ph D. 1946 Public Administration

BA, University of Missouri; MA, Harvard University

Associate Professor, Political Science, Queens College (New York)

Rys, John Frank
Ph D. 1966 International Relations and Organization

AB, Gettysburg College; MA, Columbia University

American Political Science Association, American Association of University Professors

Assistant Professor, Political Science, Montgomery Junior College, 1966—

5906 Halsey Road, Rockville, Maryland 20851

Sabella, Ricardo Hiceta
Ph D. 1935 Political Science

BA, BE, George Washington University; MA, Georgetown University

Professor, Economics, Far Eastern University, Manila, retired 1958*

Sadiq, Nasim Mahmood
Ph D. 1964 Economics

BA, Gordon College (Pakistan); MA, University of Panjab; MA, American University

6/5-N. 4th Street, P.E.C.H.S., Karachi, Pakistan

Safer, Susanne Renee Arvay
Ph D. 1965 Psychology

BA, Western Reserve University; MA, George Washington University

American Psychological Association

Foundation Executive, Eugene and Agnes E. Meyer Foundation, 1965—

7420 Hampden Lane, Bethesda, Maryland

Said, Abdul Aziz
Ph D. 1957 International Relations and Organization

BS, MA, American University

Professor, School of International Service, American University, 1957—

5045 Garfield Street, Washington, D.C. 20016

Salsbury, Maurice Edward (Deceased)
DCL 1924 Law

LL B, Cincinnati Law School; LL M, American University

Lawyer

Sander, Aldred D.
Ph D. 1955 History

BA, American University; MA, Miami University

American Historical Association, Organization of American Historians

Chairman, Calumet Section, History and Political Science and Professor, History, Purdue University, Calumet Campus, Hammond, Indiana, 1962—

390 Ellendale Parkway, Crown Point, Indiana 46307*

Sanders, George Patrick (Deceased)
Ph D. 1930 Chemistry

BS, MS, University of Minnesota

Superior Service Award, Department of Agriculture (1950)

Chemist, Dairy Products Section, Agricultural Research Service, U.S. Department of Agriculture, 1926—n.d.

Sanford, Claude Buren (Deceased)
DCL 1918 Law

AB, University of Tennessee; LL B, LL M, George Washington

Sava, Samuel George
Ed D. 1964 Education

BS, Slippery Rock State College (Pennsylvania); MS, Westminster College

Executive Director, Institute for Development of Educational Activities, C. F. Kettering Foundation

7800 Rain Tree Road, Centerville, Ohio 45459

Schaal, Eugene Albert (Deceased)
Ph D. 1931 Philosophy

AB, Lawrence College; AM, Northwestern University

Schatz, Louis

Ph D. 1958 Psychology

BA, MA, George Washington University

American Psychological Association, American Association for Public Opinion Research, American Academy of Political and Social Science, American Marketing Association

President, Schatz Research Associates, Inc., 1965—

301 E. 62 Street, New York, New York 10021

Schechter, Henry B.

Ph D. 1951 Economics

BS, City College of New York; MA, American University

Director, Office of Economic and Market Analysis, Department of Housing and Urban Development

1015 Robroy Drive, Silver Spring, Maryland
20903

Scheips, Paul Joseph

Ph D. 1965 History

AB, Evansville College; AM, University of Chicago

Tau Kappa Alpha, Phi Alpha Theta, Phi Kappa Phi

Organization of American Historians, American Historical Association, American Association of University Professors, American Military Institute

Historian, Chief of Military History, Department of the Army, 1962—

3483 S. Wakefield Street, Arlington, Virginia
22206

Schneiderman, Marvin Arthur

Ph D. 1962 Statistics

BS, City College of New York; MA, American University

American Statistical Association (Fellow), American Association for the Advancement of Science (Fellow), Royal Statistical Society (Fellow), Biometric Society, American Association for Cancer Research, American Therapeutic Society

Statistician, National Cancer Institute, 1948—

6503 East Halbert Road, Bethesda, Maryland
20034

Schreiber, Carl (Deceased)

Ph D. 1964 Public Administration

BA, George Washington University; MA, American University

Pi Gamma Mu, Pi Sigma Alpha

Chief Liaison Officer, Office of Tracking and Data Acquisition, Office of Advanced Research and Technology, National Aeronautics and Space Administration, 1958-66

Schultz, Duane Philip

Ph D. 1962 Psychology

AB, Johns Hopkins; MA, Syracuse University

American Psychological Association, Eastern Psychological Association, Southeastern Psychological Association, American Association of University Professors

Associate Professor, Psychology, University of North Carolina at Charlotte, 1966—

400 McAlway Road, Charlotte, North Carolina
28211

Schwartz, Robert Jay

Ph D. 1958 Economics

BS, City College of New York; MA, Columbia University

American Economic Association

Vice-President, Israel Discount Bank, Ltd., 1962—

30 Fifth Avenue, New York, New York 10003

Schwarz, Robert Henry

Ph D. 1966 Psychology

BA, MA, University of Wisconsin

2814 Ridge Road, Madison, Wisconsin 53705

Seckler-Hudson, Catheryn (Deceased)

Ph D. 1933 International Relations and Organization

BS, Northeast Missouri State Teachers College; MA, University of Missouri

LL D, Gettysburg College (1961), LHD, Ohio Wesleyan (1962), Carnegie Fellow in International Law 1931-33, Pi Sigma Alpha, Pi Gamma Mu, Kappa Delta Pi, American University Alumni Recognition Award (1955)

American Political Science Association, American Society for Public Administration (Executive Council), Society for the Advancement of Management, Society for Personnel Administration (Executive Council), National Education Association

Dean, School of Government and Public Administration, American University, 1933-63

Selivanoff, George Alexander

Ph D. 1964 International Relations and Organization

BA, University of British Columbia; MA, American University

3152 Carroll Street, Victoria, British Columbia,
Canada*

Sen Gupta, Anima

Ph D. 1958 Sociology

BA, University of Calcutta (India); MA, Columbia University Teachers College

Family Planning Research Unit, Indian Statistical Unit, 204 Barrackpore Trunk Rd., Calcutta, 35, India

115-D Rash Behary Avenue, Calcutta, India

Sharron, Arthur O.
Ph D. 1958 Economics
BS, City College of New York; MA. American University
Professor, Business Administration, Fairleigh-Dickinson University
315 West 57th Street, New York, New York 10019

Shehabeddin, Mohammed Mohammed Hassan
Ph D. 1966 International Relations
BA, University of Cairo (Egypt); MA, American University
American Political Science Association, American Historical Association, American Association of University Professors, Middle East Institute, American Friends of the Middle East
Assistant Professor, Political Science, Western Carolina University
Box 377-A, Cullowhee, North Carolina 28723

Shelledy, Frederick Henry
Ph D. 1933 Economics
BS, University of Missouri; MA, George Washington University
231 West Basic Road, Henderson, Nevada*

Shenefield, Hale T.
Ph D. 1951 Economics
AB, MA, University of Michigan
American Economic Association, American Political Science Association
Senior Economist, Research Triangle Institute, 1967—
Research Triangle Institute, R & D Division, Box 200 APO New York 09205

Shostack, Albert L.
Ph D. 1964 Sociology
BSS, College of the City of New York; AM, Columbia University
Special Assistant, Office of the Director, Office of Manpower Policy, Evaluation, and Research, U.S. Department of Labor
2633 Cory Terrace, Silver Spring, Maryland 20902

Shuler, Cyril Ovierre
Ph D. 1966 Public Administration
BS, Clemson Agricultural College; M Litt., University of Pittsburgh
Assistant Professor, Industrial Management, Clemson University
216 Strawberry Lane, Clemson, South Carolina 29631

Shultz, Meyer
Ph D. 1961 Psychology
BS, College of the City of New York; AM, Columbia University
Psi Chi
American Psychological Association, Eastern Psychological Association, District of Columbia Psychological Association
Research Psychologist, U.S. Civil Service Commission, 1954—
1812 Allison Street, N.W., Washington, D.C. 20011

Siegel, Herbert Aaron
Ph D. 1964 Psychology
AB, AM, Temple University
Associate Professor, Psychology, Towson State College, 1963—
901 Barebranch Court, Pikesville, Maryland

Sinclair, Joseph Clement
Ph D. 1929 Philosophy
AB, Johns Hopkins University; AM, American University
Retired, Clergyman, Jamieson Memorial Methodist Church, Clarksville, Virginia
Route 1, Box 234, Brandywine, Maryland 20613

Singh, Balwir
Ph D. 1963 Economics
BA, East Punjab University; MA in Economics and MA in Political Science, Punjab University (India)
Associate Professor, Economics, Wittenberg University, 1966—
217 West McCreight Avenue, Springfield, Ohio 45504

Singh, Shamsher
Ph D. 1962 Economics
BA, Sikh National College (Punjab); MA, Punjab University College (New Delhi); Diploma, The Regent Street Polytechnic (London)
Economist, International Bank for Reconstruction and Development, 1962—
2306 38th Street, N.W., Washington, D.C. 20007

Skillington, James Edgar
Ph D. 1951 Public Administration
BA, Dickinson College; MA, University of Buffalo
Budget Officer, National Bureau of Standards
11701 Smoke Tree Road, Potomac, Maryland 20854

Skinner, Joshua John
Ph D. 1917 Biology

BS, MS, University of North Carolina

American Chemical Society, Agronomy Society of America, Washington Academy of Sciences

Retired, Senior Biochemist, Bureau of Plant Industry, Soils and Agricultural Engineering, Department of Agriculture, 1904-45

Route 3, Old Neck Road, Hertford, North Carolina*

Skolnik, Alfred Milton
Ph D. 1956 Government

BA, New York University; MA, Columbia University

American Risk and Insurance Association

Chief, Interprogram Studies Branch, Social Security Administration, 1961—

2-E Northway Road, Greenbelt, Maryland 20770

Slagle, Robert Oakley
Ph D. 1965 History

AB, Suffolk University; MA, Boston University

Phi Alpha Theta

American Historical Association, Association of American Geographers, Society for the History of Technology

Staff Analyst, Research Analysis Corporation, 1962—

7100 Sea Cliff Road, McLean, Virginia 22101

Smalley, Walter Ivan
Ph D. 1932 Philosophy

AB, Southern Methodist University; MA, American University

Editor, Publications Division, Department of Air Force, Pentagon, 1951-54, Retired

Post Office Box 325, Maitland, Florida 32751

Smith, Elaine Diana
Ph D. 1959 International Relations and Organization

BA, Grinnell College; MA, School of Advanced International Studies, Johns Hopkins University

Alumni Meritorious Award, Grinnell College, Phi Beta Kappa

American Association of University Women, League of Women Voters, Foreign Service Association

Foreign Service Officer, Department of State, 1960—

U.S. Embassy, Ankara, Turkey, c/o Postmaster, New York 09254

Smith, Harold David
Ph D. 1952 Economics

BA, Bridgewater College; MS, University of Maryland

Professor, Agricultural Economics, University of Maryland

3407 Cool Spring Road, Hyattsville, Maryland

Smith, Howard Frank
Ph D. 1963 Economics

AB, Wayne State University; MBA, Harvard Business School, MA, American University

American Economic Association

Deputy Director, Agency for International Development, Congo, 1964—

3214 N. Wakefield Street, Arlington, Virginia 22207

Smith, Lybrand Palmer (Deceased)
D Sc. 1935 Psychology

BS, U.S. Naval Academy

Registered professional engineer, American Academy for the Advancement of Science (Fellow), American Society of Naval Engineers (Council), Society of Naval Architects and Marine Engineers, Chi Psi Omega

Career Naval Officer, Retired, 1945; Professor, Naval Engineering, Graduate School, Massachusetts Institute of Technology, 1945-48

Smith, Paul F.
Ph D. 1955 Economics

AB, University of Chicago; MA, Northwestern University

American Economic Association, American Finance Association

Professor, Finance, University of Pennsylvania

3 Brookside Drive, Wayne, Pennsylvania

Smith, Ralph Dela
Ph D. 1934 Philosophy

AB, Syracuse University; BD, Drew Theological Seminary; MA, American University

DD, American University (1950), Phi Beta Kappa

Methodist Minister, Retired 1964

10820 Georgia Avenue, Silver Spring, Maryland 20902

Smith, Robert London
Ph D. 1965 International Relations

BA, College of St. Joseph on the Rio Grande; MA, University of Oklahoma

Dean, Business, Economics and Government, University of Alaska

University of Alaska, 105 Eilson Building, College, Alaska 99701

Permanent address: 1301 Iris Street, N.W., Washington, D.C. 20012

Smolka, Richard Gregory
Ph D. 1966 Government

BA, MA, American University

American Political Science Association

Associate Professor, School of Government and Public Administration, American University, 1962—

5620 33rd Street, N.W., Washington, D.C.

Solon, Jerry Alan
Ph D. 1964 Sociology

BA, College of the City of New York; MA, American University

American Sociological Association, American Public Health Association, Gerontological Society, Society for the Study of Social Problems

Associate Professor, Medical and Hospital Administration, Graduate School of Public Health, University of Pittsburgh*

1820 Wightman Street, Pittsburgh, Pennsylvania 15217*

Somers, Lee
Ph D. 1926 Economics

AB, Harvard; MCS, American University

Retired, Public Relations, 1948

7418 Arlington Road, Bethesda, Maryland 20014

Sonnino, Mario Anthony
Ph D. 1949 Economics

C.Sc. D., University of Rome; MA, George Washington University; MBA, American University

Alpha Kappa Psi

American Society of Traffic and Transportation, American Economic Association, American Management Association, Society for the Advancement of Management, Association of Business Teachers

Economist, Civil Aeronautics Board, 1962—

2023 Jameson Street, S.E., Washington, D.C. 20031

Spanton, William Timothy
Ph D. 1932 Philosophy

BA, BS, Ohio State University; MA, Brown University

National Advisor, Future Farmers of America, American Vocational Association (Life Member)

Retired, Director, Agricultural Education Service, U.S. Office of Education, 1941-61

6900 Forest Hill Drive, College Heights Estates, Hyattsville, Maryland 20782

Spencer, Daniel Lloyd
Ph D. 1953 Economics

AB, Columbia University; MA, University of California (Berkeley)

Fulbright Award (India, 1958-59), Ford Foundation Award for Research

American Economic Association, Southern Economic Association, Metropolitan Economic Society, Association for Asian Studies, Southern Regional Asian Association, American Association of University Professors

Professor and Head, Economics, Howard University, 1960—

4405 Ridge Street, Chevy Chase, Maryland 20015

Spencer, Mabel Sidell
Ed D. 1959 Education

BS, MS, University of West Virginia

Phi Kappa Phi, Phi Upsilon Omicron, Phi Delta Gamma

National Education Association, American Association of University Professors, American Home Economics Association, Maryland Vocational Association (President)

Associate Professor, Home Economics Education, University of Maryland

7702 Adelphi Road, West Hyattsville, Maryland

Spencer, William
Ph D. 1965 International Relations and Organization

AB, Princeton University; AM, Duke University

Phi Kappa Phi, Pi Sigma Alpha, Carnegie Literary Fellowship (1959), American Association of Middle East Studies, Faculty Fellow 1962

American Historical Association, International Platform Association

History Department, Florida State University, 1968—

Tallahassee, Florida

Sperry, John Berhart
Ph D. 1966 Business Administration

BS, New York University; MBA, University of Pennsylvania

American Association of Accountants, Federal Accountants Association, Army Finance Association

Lt. Col., Army; Instructor, Industrial College of Armed Forces, 1966—

4707 Split Rock Road, Alexandria, Virginia 22310

Spindler, Frank MacDonald
Ph D. 1966 History

BA, University of Texas; STB, General Theological Seminary; MA, University of Houston

Phi Alpha Theta

Conference on Latin American History, American Historical Association, Church Historical Society, Texas State Historical Association, American Institute of Archaeology

Assistant Professor, History, George Mason College of the University of Virginia, 1967—

1233 4th Street, S.W., Washington, D.C. 20024

Spock, Anne Ingersoll
Ph D. 1959 Psychology
BA, Vassar College; MA, American University
American Psychological Association
R.R. 2, Box 175, Windsor, Vermont

Spraggins, Tinsley Lee
Ph D. 1957 History
BA, West Virginia State College; MA, Howard University
Program Specialist, Bureau of Elementary and Secondary Education, Office of Education, Department of Health, Education and Welfare
1723 Webster Street, N.W., Washington, D.C. 20011

Sprunger, James Amstutz
Ph D. 1956 Psychology
BA, MA, Ohio State University
Human Factors Society, American Psychological Association, Western Psychological Association, American Association for the Advancement of Science, American Institute of Aeronautics and Astronautics
Senior Technical Specialist, North American Aviation, 1962—
22245 Kittridge Street, Canoga Park, California 91304

Stadler, Robert Burt
Ph D. 1934 Economics
BA, MA, George Washington University
6401 33rd Street, N.W., Washington, D.C. 20015

Steer, Henry Bake
Ph D. 1937 Economics
BS, MF, Cornell University
Economist, Forest Service, United States Department of Agriculture, 1930-53, retired
2900 South Glebe Road, Arlington, Virginia

Stegall, Ezekiel Ranson
DCL 1925 Law
AB, Furman College; BS, George Peabody College for Teachers; LL B, Georgetown University; MA, American University
Attorney, Tax Court of the United States, retired
4820 Davenport Street, N.W., Washington, D.C. 20016*

Stein, Stanley Marian
Ph D. 1964 International Relations and Organization
University of Cracow (Poland); University of Basel (Switzerland); MA, American University
Assistant Professor, Political Science, Ricker College, 1966—
22 High Street, Houlton, Maine 04730

Steinmeyer, Reuben G. (Deceased)
Ph D. 1935 History
BA, American University
Phi Kappa Phi, Pi Gamma Mu, Pi Delta Epsilon, Pi Sigma Alpha (National Council), American University Alumni Recognition Award (1951)
American Political Science Association, American Society of International Law, American Academy of Political and Social Science
Professor, Government and Politics, University of Maryland, 1935-65

Stevens, Robert David
Ph D. 1965 Public Administration
AB, Syracuse University; BS, Columbia University; MA, American University
Phi Beta Kappa
American Library Association, Hawaiian Library Association (President), Honolulu Society for Public Administration
Professor and Associate Dean, Library Activities, University of Hawaii, 1964—
3265 Paty Drive, Honolulu, Hawaii 96822

Stevens, Wayne Mackenzie
Ph D. 1926 Business Administration
BS, University of Illinois; MBA, Northwestern University
American Economic Association, American Marketing Association
Professor Emeritus, Business, and Consultant in International Business, San Francisco State College, 1950—
Oficina de Planificacion, Aptdo 449, Managua, Nicaragua, C.A.

Stewart, Margaret Mary (Deceased)
DCL 1923 Law
AB, George Washington University; LL B, LL M, Washington College of Law

Stickle, Wilmer Franklin (Deceased)
DCL 1922 Law
AB, George Washington University; LL B, National University Law School

Stillman, Arthur McLean
Ph D. 1965 International Relations
AB, Brown University; BL, Harvard University; AM, George Washington University
U.S. Arms Control and Disarmament Agency
5213 Augusta, Bethesda, Maryland

Stone, Anthony Robert
Ph D. 1963 Sociology

Ph B., Providence College; MSSW, Boston College of Social Work, Certificate, University of Pittsburgh School of Social Work

National Association of Social Workers, American Sociological Association, American Association of Marriage Counselors, American Orthopsychiatric Association, Eastern Sociological Society

Associate Professor, Psychiatry, Johns Hopkins University Medical School

614 College Avenue, Lutherville, Maryland 21093

Stoner, William Smith (Deceased)
DCL 1924 Law

LL B, National University Law School; MPS, American University

Stovall, Bates Mitchell (Deceased)
DCL 1924 Law

LL B, George Washington University; LL M, Georgetown University

Lawyer

Stowell, Elbridge Zebina
Ph D. 1927 Physics

BS, Tufts University; MS, University of Nebraska

Senior Scientist, Southwest Research Institute, 1959—

110 Sunnycrest Drive, San Antonio, Texas 78228

Strahan, James Russell
Ph D. 1946 International Relations and Organization

BA, Earlham College; MA, Fletcher School of Law and Diplomacy

203 South 17th Street, Richmond, Indiana*

Stubbs, Joseph James
Ph D. 1936 Chemistry

BS, The Citadel; MA, George Washington University

American Society of Microbiology, Research Society of America, American Association for the Advancement of Science

Chief, Special Operations Division, Ft. Detrick, Maryland

Route 5, Frederick, Maryland 21701

Sugarman, George
Ph D. 1960 Public Administration

BS, City College of New York; MA, George Washington University

Box 10023, Sauturce, Puerto Rico

Sundstrom, John Walker
Ph D. 1950 Public Administration

BA, University of California (Los Angeles); MA, University of California (Berkeley)

American Society for Public Administration, Reserve Officers Association

Foreign Service Officer, U.S.A.I.D. State Department, Turkey, Retired (1959)

Glenwood, Maryland 21738

Sweetser, Albert Gibby
Ph D. 1961 Business Administration

AB, Harvard; MBA, New York University

CFA, The Institute of Chartered Financial Analysts (Virginia)

Appalachian Finance Association (President), American Finance Association, American Economic Association, American Real Estate and Urban Economics Association, Pittsburgh Society of Financial Analysts, Financial Analysts Federation

Professor and Chairman, Finance, School of Business, State University of New York at Albany, 1967—

17 Broadleaf Drive, Elnora, New York 12065

Swenson, T. Lowell
Ph D. 1934 Biology

BS, Washington State University; MS, American University

American Chemical Society, Institute of Food Technologists

Food Specialist and Consultant, U.S. Operations Mission to Jordan, 1952-57; Chief Advisor, Iranian Bureau of Standards, 1957—*

Tabibi, Abdul Hakim
Ph D. 1955 International Relations and Organization

Diploma, University of Kabul, (Afghanistan); MA, George Washington University

Ambassador of Afghanistan to Japan

Royal Afghan Embassy, Olympia Annex Apartment 503, #37-21, 6-Chome, Jingumae, Shibuya-Ku, Tokyo, Japan

Tachino, Tadami
Ph D. 1960 Economics

BS, MA, American University

4616 South 7th Street, Arlington, Virginia 22204

Tansky, Leo
Ph D. 1964 Economics

BS, Syracuse University; MS, Columbia University

Economist, Central Intelligence Agency

1302 Caddington Avenue, Silver Spring, Maryland 20901

Terry, Edgar Raymond
Ph D. 1959 International Relations and Organization

BS, U.S. Naval Academy; MA, University of Maryland

Teu, II, Sanfjord Brogdyne
Ph D. 1934 History

BA, University of North Carolina; LL B, George Washington University; MA, American University

Retired, U.S. Government; Assistant Professor, History, Campbell College (North Carolina)

4306 36th Street South, Arlington, Virginia*

Thomas, James Albert
Ph D. 1966 Psychology

BA, MA, Ohio State University

U.S. Army Personnel Research Office

6012 North Dakota Avenue, N.W., Washington, D.C. 20011

Thornton, Allan Fitzhugh
Ph D. 1965 Economics

AB, Morningside College; MA, American University

Director, Division of Research and Statistics, Federal Housing Administration

4822 Upton Street, N.W., Washington, D.C.

Tiedemann, John George
Ph D. 1961 Psychology

BA, MS, George Washington University

American Psychological Association

Acting Chief, Combat Systems Research Division, U.S. Army Behavioral Science Research Laboratory

2938 McKinley Street, N.W., Washington, D.C. 20015

Todd, Harry Swain
Ph D. 1925 International Relations and Organization

BA, University of Rochester

4719 South Fern Court, Orlando, Florida

Todd, Helga Colquist
Ph D. 1925 Education

BA, University of Pittsburgh

4719 South Fern Court, Orlando, Florida

Torrence, Lois E.
Ph D. 1961 Government

BA, Kansas Wesleyan University; MA, Southern Methodist University

Phi Kappa Phi, Pi Sigma Alpha, Phi Alpha Theta

American Political Science Association, Canadian Political Science Association, Association for Institutional Research, American Association of University Professors, American Association of University Women

Professor, Government and Director of Institutional Studies, American University, 1951—

1931 N. Cleveland Street, Arlington, Virginia 22201

Torvestad, John Nelson
DCL 1921 Law

BS, Hamline University; LL B, Minnesota College of Law; LL M, MPL, National University Law School

Truitt, Reginald Van Trump
Ph D. 1929 Biology

BS, MS, University of Maryland

Phi Kappa Phi, Sigma Xi, Omicron Delta Kappa

American Association for the Advancement of Science, American Society of Zoologists, Audubon Society of America, Ecological Society of America (Vice President), Maryland Academy of Sciences (Fellow), Maryland Natural History Society, Southern Association of Science and Industry, American Fisheries Society, National Shellfisheries Association (President), National Rivers and Harbors Congress, Limnological Society of America

Retired, Director, Maryland Department of Research and Education, 1941-54

Great Neck, Stevensville, Maryland 21666

Turano, Peter Joseph
Ph D. 1951 Political Science

BA, University of New Mexico; MA, University of Maryland

Government Department, Pan American College

116 Martha Louise Avenue, Edinburg, Texas 78501

Turk, Herman
Ph D. 1959 Sociology

BS, University of Nebraska; MA, Columbia University

American University Honor Society, Alpha Kappa Delta

American Sociological Association (Fellow), American Association for Public Opinion Research, American Association of University Professors, American Association for the Advancement of Science

Professor, Sociology, University of Southern California, 1966—

458 21st Street, Santa Monica, California 90402

Tyagi, VirViranjan Singh
Ph D. 1958 Economics

BS, Agra University (India); MS, University of Maryland

c/o Embassy of India, 2536 Massachusetts Avenue N.W., Washington, D.C.*

Tyson, Brady Bradford
Ph D. 1963 International Relations and Organization

BA, Rice Institute; BD, Southern Methodist University

Visiting Associate Professor, School of International Service, American University, 1967—

4501 Cheltenham Drive, Bethesda, Maryland 20014

Urrutia-Aparicio, Carlos
Ph D. 1960 International Relations and Organization

BA, University of Dayton; MA, George Washington University

Ambassador of Guatemala to Organization of American States, 1960-63; Officer, Department of Information and Public Affairs, Organization of American States, 1963—

8608 Rayburn Road, Bethesda, Maryland

Valdes, William Charles
Ph D. 1959 Public Administration

BA, Yale; MA, George Washington University

Society for Personnel Administration (Executive Committee)

Staff Director, Office of Civilian Personnel Policy, Office of the Secretary of Defense

8102 Karl Road, Alexandria, Virginia 22308

Varki, Thankamma C.
Ph D. 1964 Economics

BA, University of Madras (India); B Ed., University of Delhi (India); BL, University of Kerala (India); MA, Panjab University (India)

Assistant Educational Advisor, Ministry of Education, New Delhi, India*

DII/45 Andrews Ganj, Road No. 1, New Delhi, India

Vinikas, Matos Joseph
Ph D. 1924 International Relations and Organization

BS, Cooper Union; MA, American University

Vogel, Albert William
Ed D. 1960 Education

BA, MA, University of New Mexico

National Council of Teachers of English, Comparative Education Society, American Association of University Professors, History of Education Society, Southwestern Philosophy of Education Society

Assistant Professor, Educational Philosophy, University of New Mexico, 1963—

3119 Indiana Avenue, Albuquerque, New Mexico 87103

Voigt, George Quentin
Ph D. 1932 Physics

B Sc., Massachusetts Institue of Technology; MS, American University

Vowels, Robert Clifford
Ph D. 1964 Economics

BA, MA, Howard University

Economics Department, Indiana State University of Pennsylvania

P.O. Box 348, Indiana, Pennsylvania 15701

Vyas, Pramod
Ph D. 1961 International Relations and Organization

BA, University of Baroda; MA, University of Bombay (India)

Wadsworth, Jr., Lawrence W.
Ph D. 1955 International Relations and Organization

BS, Centenary; MA, Tulane University

Pi Sigma Alpha

American Political Science Association, American Association of University Professors

Grazier Professor, International Law, School of International Service, American University

3520 Tilden Street, N.W., Washington, D.C. 20008

Wagner, Carl Michael
Ph D. 1963 Psychology

BS, Seattle University; MA, Fordham University

Deputy Director, Behavioral Sciences Department, Naval Medical Research Institute

318 West Edmonston Drive, Rockville, Maryland 20852

Wallace, Sarah Agnes (Deceased)
Ph D. 1925 History

Ph B., University of Chicago; MA, George Washington University

Teacher, Public Schools, n.d.

Walt, Dorothy Elizabeth (Mrs. Waugh)
Ph D. 1962 Psychology

AB, University of California (Los Angeles); MA, State University of Iowa

American Psychological Association, Eastern Psychological Association

Chief, Personnel Management Research Division, Department of Defense, 1965—

340 N Street, S.W., Washington, D.C. 20024

Waltemyer, William Claude
Ph D. 1929 Philosophy

AB, Gettysburg College; BD, Lutheran Theological Seminary; MA, American University

Phi Beta Kappa

American Association of University Professors, Society of Biblical Literature

Professor Emeritus, English Bible, Gettysburg College, 1929—

251 Springs Avenue, Gettysburg, Pennsylvania 17325

Wason, James Robert
Ph D. 1963 Economics

BA, American International College

Alpha Chi

American Economic Association, Industrial Relations Research Association, Economic History Association, American Historical Association

Economist, Library of Congress, Legislative Reference Service, 1962—

2423 Foster Place, S.E., Hillcrest Heights, Maryland 20031

Weary, Bettina
Ph D. 1960 Sociology

BA, Barnard College; MA, Columbia University

American Association for the Advancement of Science, American Sociological Association, American Personnel and Guidance Association

Specialist, Career Development, Office of Education, U.S. Department of Health, Education and Welfare

1301 Delaware Avenue, S.W., Washington, D.C. 20024

Weaver, Paul Elwood
Ph D. 1958 International Relations and Organization

BS, United States Military Academy; MA, Georgetown University

Webber, Clemmie Embly
Ed D. 1965 Education

BS, MS, South Carolina State College

Beta Kappa Chi, Phi Delta Gamma, Delta Sigma Theta

National Education Association, Palmetto Education Association, National Science Teachers Association, American Association of University Professors

Professor, Science Education, South Carolina State College, 1955—

1551 Russell, N.E., Orangeburg, South Carolina 29115

Webster, Robert Lyle
Ph D. 1958 Public Administration

BA, University of North Dakota; MS, Columbia University

Distinguished Service Award, U.S. Department of Agriculture, Distinguished Alumni Award, University of North Dakota, Outstanding Alumni Award, Columbia University School of Journalism, Sigma Delta Chi

National Press Club, American Agricultural Editors Association, American Association Agricultural College Editors, American Society for Public Administration

Consultant, Communications and Agricultural Information, Ford Foundation in India

Care Ford Foundation, 32 Ferozshah Road, New Delhi, India

Weintraub, Sidney
Ph D. 1966 Economics

BBA, College of the City of New York; MA, University of Missouri; MA, Yale

Phi Kappa Phi, Omicron Delta Epsilon, Sigma Delta Chi, Beta Gamma Sigma

American Economic Association, American Foreign Service Association

Economic Counselor, American Embassy, Santiago, Chile, 1966—

c/o American Embassy, Santiago, Chile

Weir, Wilbert Walter (Deceased)
Ph D. 1923 Biology

BS, University of Wisconsin

Alpha Zeta

Soil Science Society of America, American Society of Agronomy

Forest Ecologist, Southwest Forest and Range Experiment Station, U.S. Forest Service, 1934-42; Material Analyst, Consolidated Vultee Aircraft Corporation, 1943-45; Soil Technologist and Plant Ecologist, Southwest Cemetaries, Inc., 1946-61.

Whiting, Albert Nathaniel
Ph D. 1952 Sociology

BA, Amherst College; MA, Fisk University

Alpha Kappa Delta

American Science Teachers Association, American Sociological Association

President, North Carolina College at Durham

Durham, North Carolina 27707

Whitney, Edson Leone (Deceased)
DCL 1921 Law

AB, Ph D., Harvard University; LL B, Boston University

Chi Psi Omega

American Economic Association, American Academy of Political and Social Science

Professor, Economics, National University (Washington, D.C.) 1923-45

Wichiencharoen, Adul
Ph D. 1954 International Relations

LL B, Thammasat University (Bangkok)

Fulbright scholarship

National Research Council of Thailand, National Education Council of Thailand, Council of Foreign Relations of Thailand (Executive Committee Member), Siam Society, American Philosophical Association, Philosophy of Science Association

Dean, Faculty of Liberal Arts, Thammasat University; Professor of Social Planning, United Nations Asian Institute for Economic Development and Planning, Bangkok

1056/3 Nakornchaisri Road, Bangkok, Thailand

Wiley, Raymond Clifford
Ph D. 1927 Chemistry

AB, Oklahoma State University of Agriculture and Applied Science

American Chemical Society

Associate Professor, Chemistry, University of Maryland, 1918-58; Toxicologist, State Livestock Laboratory, Maryland, 1940—; Retired

4507 Beechwood Road, College Park, Maryland 20740

Wilkinson, Vernon Lee
Ph D. 1933 International Relations and Organization

AB, Whitman College; MA, American University; Certificate, University of Paris; LL B, Georgetown University

Phi Beta Kappa, Pi Gamma Mu, Carnegie Fellowship (1931-32), Brookings Fellowship (1932-33)

Attorney (Partner), McKenna and Wilkinson, 1952—

3310 Ordway Street, N.W., Washington, D.C. 20008

Williams, Chancellor
Ph D. 1949 Sociology

BA, MA, Howard University

Associate Professor, History, Howard University

5000 Sheriff Road, N.E., Washington, D.C. 20019

Williams, Lorraine Anderson
Ph D. 1955 History

AB, AM, Howard University

Member, Board of Educational Advisers to New York Times (1967), Phi Alpha Theta

American Association of University Professors, American Historical Association, American Academy of Political and Social Science, American Studies Association

Associate Professor and Head, Social Sciences, Howard University, 1962—

1329 Shepherd Street, N.W., Washington, D.C. 20011

Williamson, Robert Burns
Ph D. 1958 Economics

BA, University of Texas; AM, George Washington University

Associate Professor, Finance, and Social Science Research Associate, Bureau of Business Research, University of Texas, 1963—

Austin, Texas

Wolle, C. Packard
Ph D. 1957 Public Administration

BA, Morningside College; MA, American University

Project Director (Nigeria), Institute of Public Administration

PMB 5246, University of Ife, Ibadan, Western Nigeria*

Womeldorph, Stuart Early (Deceased)
DCL 1928 Law

LL B, LL M, Washington College of Law; MPS, American University

District of Columbia Bar

Executive Secretary, Association of Military Surgeons of United States, 1917-61

Wood, Lester (Deceased)
DCL 1923 Law

LL B, Georgetown University

American Bar Association, District of Columbia Bar Association

Attorney, Washington, D.C., 1922-63

Wood, Marie Viola
Ph D. 1955 History

BA, Shaw; MA, Howard University

Professor, History; Administrative Assistant to the President, Hampton Institute (Virginia)

Permanent address: 5206 First Street, N.W., Washington, D.C. 20011

Wood, Jr., Thomas L.
Ph D. 1954 Public Administration

BA, University of Georgia; MBA, Columbia University

Phi Beta Kappa, Phi Kappa Phi, Phi Eta Sigma, Blue Key, Omicron Delta Kappa

Washington Technical Personnel Forum, Virginia Chamber of Commerce, Management Relations Committee

Personnel Director, MELPAR, Inc., 1963—

6827 Murray Lane, Annandale, Virginia 22003

Woods, Irving Arno
Ph D. 1954 Psychology
BS, Queens College of the City of New York; MA, New York University
Office of Extramural Programs, National Institute of Neurological Diseases and Blindness
710 Horton Drive, Silver Spring, Maryland 20902

Woods, Kenneth Flint
Ph D. 1962 History
BS, Ball State Teachers College; MA, University of Maryland
150 N.W. 18th Street, Homestead, Florida 33030*

Woodward, Lawrence Godfrey
Ph D. 1959 Public Administration
BA, MA, George Washington University
American Society for Public Administration, Society for Personnel Administration, Public Personnel Association
Administrative Officer, Central Intelligence Agency, 1966—
4412 Vacation Lane, Arlington, Virginia 22207

Wool, Harold
Ph D. 1965 Economics
AB, Brooklyn; MSS, New School for Social Research
American Historical Association, American Economic Association
Director for Procurement Policy, Office of Assistant Secretary of Defense (Manpower), 1952—
6716 Brigadoon Drive, Bethesda, Maryland 20034

Wright, John William
Ph D. 1938 Economics
BS, Utah State University; MS, American University
Certificate of Merit from U.S. Department of Agriculture
American Economic Association, American Farm Economic Association, American Marketing Association, American Statistical Association, American Society for Advancement of Science, Fiber Society
Retired, Chief of Division, U.S. Department of Agriculture; Director Pakistan Institute of Cotton Research and Technology, 1957-60; Consultant, 1960—
2122 Massachusetts Avenue, N.W., Washington, D.C. 20008

Wright, Leonard Townsend
Ph D. 1962 Economics
BS, MBA, Syracuse University
Associate Professor, Finance, School of Business, State University of New York, Albany, 1963—
25 Eldorado Drive, Clifton Knolls, Elnora, New York 12065

Wright, Ruth Etta
Ph D. 1933 International Relations and Organization
BA, Middlebury College; MA, University of Vermont
Colchester, Vermont

Wyatt, Julien Daniel (Deceased)
DCL 1926 Law
AB, MA, Wofford College
Lawyer

Yalem, Ronald J.
Ph D. 1956 International Relations and Organization
BA, Washington University; MA, American University
Associate Professor, Political Science, University of Alabama, 1966—
36 Vestavia Hills, North Port, Alabama

Yapko, Benjamin L.
Ed D. 1958 Education
BS, College of William and Mary; M Ed., University of Virginia
4635 N. Wildwood, Milwaukee, Wisconsin 53211

Yodfat, Aryeh Y.
Ph D. 1963 History
BA, MA, Hebrew University (Israel)
c/o Embassy of Israel, 1621 22nd Street, N.W., Washington, D.C. 20008*

Yoon, Hong Sub
Ph D. 1935 International Relations and Organization
BPS, Waseda University (Japan); MA, Columbia University

Yoon, Stanley Sung-soon
Ph D. 1932 History
AB, Huron College; AM, University of Minnesota
226, Noryangjin-Dong, Yungdongpo-Ku, Seoul, Korea

Yoon, Young Kyo
Ph D. 1959 International Relations and Organization

BA, Chosun Christian University (Korea); MA, Hardin-Simmons University

Yunus, K.
Ph D. 1954 International Relations and Organization

B Com., M Com., Fouad First University (Egypt)

Zanotti, Isidoro
Ph D. 1958 International Relations and Organization

LL B, National School of Law, University of Brazil

Brazilian Bar Association, Inter-American Bar Association (Council), American Society of International Law, American Political Science Association, American Academy of Political and Social Science

Legal Adviser, General Secretariat, Organization of American States, 1949—

429 N Street, S.W., Apt. S-803, Washington, D.C. 20024

Zelen, Marvin
Ph D. 1957 Statistics

BS, City College of New York; MA, University of North Carolina

Professor, Statistics, State University of New York, Buffalo

14226 Ridgelea Road, Amherst, New York

Zucker, Joseph Steinhauer
Ph D. 1927 Economics

BA, George Washington University; MA, American University

Staff assistant to Secretary of the Treasury; Principal Assistant to Assistant Commissioner, Internal Revenue Service, 1920-64; Self-employed, economist and tax consultant, 1964—

211 Brewster Avenue, Silver Spring, Maryland 20901

Appendix D

Copy of the survey questionnaire

THE AMERICAN UNIVERSITY | OFFICE OF INSTITUTIONAL STUDIES
Massachusetts and Nebraska Avenues, N.W. • Washington, D. C. 20016
Telephone 244-6800

October 6, 1966

To: American University Doctoral Alumni

A few years ago, in connection with a University self-study, you may remember having received a general alumni questionnaire. The replies were very helpful and your assistance was appreciated.

Fifty-two years ago — October 6, 1914 — our University opened for classes as a graduate school and remained solely a graduate institution until 1925. The first doctorate was awarded in 1916 and, during the ensuing half-century, the University has conferred 680 doctoral degrees. It is to you as the recipient of one of our doctoral degrees that this communication is directed.

Through various faculty and other committees and through the Office of Institutional Studies, the University is now engaged in a thorough review of its role in graduate work. While we have information concerning the activities of some of you, we wish to learn more about the specific contributions made by all of our doctoral alumni to business, education, government and other phases of our nation's life. Indeed, the impact of our graduate degree alumni has been world-wide. We are aware, nevertheless, that our strong commitment to graduate education requires the evaluation of our academic programs, the identification of both strengths and weaknesses, and the formulation of a plan for future development.

We feel that you represent our most valuable source of information; you are qualified to help evaluate our past and present doctoral programs. Your experiences at the University can provide valuable guidelines in charting our future.

Although the following three-page questionnaire is self-explanatory, may we call your attention to the fact that Section V, which asks for your general comments, also suggests specific items on which your views are of particular concern to us. Please use additional sheets if the space provided for any section is not adequate. We are enclosing an extra questionnaire to serve as your work and file copy and a postage-free envelope for returning the completed questionnaire. Your cooperation in this effort will be appreciated.

Sincerely yours,

Lois E. Torrence

Lois E. Torrence, Director
Office of Institutional Studies

THE AMERICAN UNIVERSITY

MASSACHUSETTS AND NEBRASKA AVENUES, N.W.
WASHINGTON, D.C. 20016

SURVEY OF EARNED DOCTORATES – 1916-1966

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I. Name: ____
(LAST) (FIRST) (MIDDLE) (MAIDEN)

Social Security Number: ____ - ____ - ____

Home Address: ____
(NUMBER AND STREET)

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(CITY) (STATE) (ZIP)

Marital Status: Single _____ ; Married _____ ; Widowed _____ ; Other _____

Name of wife or husband: ____

Did wife or husband attend A.U.? _____ If yes, give years and degree(s) ______________________

____

Number of children and ages: ____

Did any of your children attend A.U.? _____ If yes, give names, dates and degrees: ______________________

____

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Religious Preference (Optional): ______________________

II. List below the undergraduate, professional and graduate institutions from which you received degrees. Please also include any post-doctoral study.

Institution and Location	Years From–To	Attended FT or PT*	Major Field	Degree	Year Received

Did you receive any scholarship, fellowship or other financial assistance from the University or from other organizations while working on your doctorate? _____ If yes, please give the sources and type of assistance:

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Were you employed while working on your doctorate? _____ If yes, in what position?

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*FT = fulltime attendance; PT = parttime attendance

III. List below the major positions you have held, starting with your current position and working back to the time you received your doctorate.

Position	Institution or Organization	Location	Years From–To	Principal Activity*

If you have not taught in a college or university on a fulltime basis, have you done any parttime college or university teaching?______ If yes, please give institutions, locations and dates.

IV. Memberships, activities and offices held in professional organizations:

Publications:

Professional honors and recognitions (include scholastic honors, honorary doctorates, etc.):

Travel abroad (locations and purposes):

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*Type of activity – e.g., administration, research, teaching, etc.

V. For the purpose of improving the academic opportunities and programs for future students, the University would appreciate any general comments you may wish to make based on your experience. We would specifically like comments on the following: (1) the strengths and weaknesses of the doctoral program you pursued and your suggestions for improving the program; (2) student-faculty relationships and the faculty members you most remember; (3) how your fulltime or parttime enrollment affected your doctoral studies; (4) how, if at all, your doctoral research was related to your employment; (5) your most favorable and unfavorable impressions of the University; (6) your reasons for selecting A.U. and, if not your first choice, where you would have preferred to take doctoral work; (7) the extent to which you have maintained contact with the University and when you last visited the campus.

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